

**Henny Penny  
Humidified Counter Warmer  
Model HCW-2  
Model HCS-2  
Model HCW-3  
Model HCW-5  
Model HCS-5  
Model HCW-8**

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**TECHNICAL MANUAL**

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## SECTION 1. TROUBLESHOOTING

### 1-1. INTRODUCTION

The section provides troubleshooting information in the form of an easy to read table.

If a problem occurs during the first operation of a new cabinet, recheck the Installation section of the Operator's Manual.

Before troubleshooting, always recheck the Operation section of the Operator's Manual.

### 1-2. SAFETY

Where information is of particular importance or is safety related, the words NOTICE, CAUTION, or WARNING are used. Their usage is described below.



**SAFETY ALERT SYMBOL** is used with DANGER, WARNING, or CAUTION which indicates a personal injury type hazard.

**NOTICE** is used to highlight especially important information.

*CAUTION used without the safety alert symbol indicates a potentially hazardous situation which, if not avoided, may result in property damage.*

*CAUTION indicates a potentially hazardous situation which, if not avoided, may result in minor or moderate injury.*

**The word WARNING is used to alert you to a procedure, that if not performed properly, might cause personal injury.**

### 1-3. TROUBLESHOOTING

To isolate a malfunction proceed as follows:

1. Clearly define the problem or symptom and when it occurs.
2. Locate the problem in the troubleshooting table.
3. Review all possible causes, then one at a time work through the list of corrections until the problem is solved.



**If maintenance procedures are not followed correctly, injuries and/or property damage could result.**

### 1-3. TROUBLESHOOTING (Continued)

PROBLEM	CAUSE	CORRECTION
THERMOMETER		
A. Reading does not match actual temperature	<ul style="list-style-type: none"> <li>• Thermometer bulb is not in holding block</li> <li>• Faulty thermometer</li> </ul>	<ul style="list-style-type: none"> <li>• Insert bulb in block</li> <li>• Replace per Thermometer section</li> </ul>
OPERATIONS		
A. Product not holding temperature	<ul style="list-style-type: none"> <li>• Doors are not kept closed</li> <li>• Product held too long</li> <li>• Water temperature too low</li> <li>• Radiant heat too low</li> <li>• Radiant heat not working</li> <li>• Light bulbs out</li> </ul>	<ul style="list-style-type: none"> <li>• Keep doors closed when possible</li> <li>• Only hold product for recommended times</li> <li>• Check water heating system per Water Pan Heater section</li> <li>• Turn to higher setting</li> <li>• Check radiant heat system per Radiant Heater section</li> <li>• Replace as required, per Light Bulb section</li> </ul>
B. Doors are fogging	<ul style="list-style-type: none"> <li>• Doors left open too much allowing doors to cool and cause condensation</li> <li>• Radiant heat not high enough</li> <li>• Radiant heat not working</li> <li>• Water temperature too high</li> </ul>	<ul style="list-style-type: none"> <li>• Keep doors closed when possible</li> <li>• Turn to higher setting</li> <li>• Check radiant heater per Radiant Heater section</li> <li>• See recommended settings and temperatures</li> </ul>

### 1-3. TROUBLESHOOTING (Continued)

PROBLEM	CAUSE	CORRECTION
WATER SYSTEM		
A. Water will not fill	<ul style="list-style-type: none"> <li>Faulty float switch</li> <li>Faulty water control switch</li> <li>Faulty water valve</li> <li>Water supply has been shut off or disconnected</li> </ul>	<ul style="list-style-type: none"> <li>Check float switch per Float Switch section</li> <li>Check water control switch per Water Control Switch section</li> <li>Check water valve per Water Valve section</li> <li>Check the water supply</li> </ul>
LIGHTING		
A. Lights will not turn on	<ul style="list-style-type: none"> <li>Defective fuse</li> <li>Faulty light switch</li> <li>No neutral supplied in field wiring</li> <li>Loose or defective wiring</li> </ul>	<ul style="list-style-type: none"> <li>Check per Fuse section</li> <li>Check light switch per Light Switch section</li> <li>Check field wiring to be sure a true neutral has been connected</li> <li>Check wiring and repair and replace if necessary</li> </ul>
B. Not all lights on	<ul style="list-style-type: none"> <li>Faulty light bulbs</li> <li>Faulty light switch</li> </ul>	<ul style="list-style-type: none"> <li>Replace with recommended bulb per Light Bulb section</li> <li>Check light switch per Light Switch section</li> </ul>

**1-3. TROUBLESHOOTING (Continued)**

PROBLEM	CAUSE	CORRECTION
HEATING SECTION		
A. Water will not heat	<ul style="list-style-type: none"> <li>Faulty contactor</li> </ul>	<ul style="list-style-type: none"> <li>Replace contactor per Contactor section</li> </ul>
	<ul style="list-style-type: none"> <li>Faulty thermostat</li> </ul>	<ul style="list-style-type: none"> <li>Check thermostat per Thermostat section</li> </ul>
	<ul style="list-style-type: none"> <li>Faulty high limit switch</li> </ul>	<ul style="list-style-type: none"> <li>Check high limit switch per High Limit Switch section</li> </ul>
B. Water will not reach desired temperature	<ul style="list-style-type: none"> <li>Low or improper voltage</li> </ul>	<ul style="list-style-type: none"> <li>Use a meter and check wall voltage versus data plate</li> </ul>
	<ul style="list-style-type: none"> <li>Faulty water heating element</li> </ul>	<ul style="list-style-type: none"> <li>Check heating elements per Water Heater section</li> </ul>
	<ul style="list-style-type: none"> <li>Wiring</li> </ul>	<ul style="list-style-type: none"> <li>Check for loose connections or faulty wires and correct or replace as necessary</li> </ul>
	<ul style="list-style-type: none"> <li>Bun pans are not over water</li> </ul>	<ul style="list-style-type: none"> <li>Place perforated bun pans over water</li> </ul>
C. Radiant heat not working	<ul style="list-style-type: none"> <li>Faulty infinite regulator</li> </ul>	<ul style="list-style-type: none"> <li>Replace infinite regulator per Infinite Switch section</li> </ul>
	<ul style="list-style-type: none"> <li>Faulty power switch</li> </ul>	<ul style="list-style-type: none"> <li>Check power switch per Power Switch section</li> </ul>
	<ul style="list-style-type: none"> <li>Faulty radiant heater</li> </ul>	<ul style="list-style-type: none"> <li>Check heater per Radiant Heater section</li> </ul>



## SECTION 2. MAINTENANCE

### 2-1. INTRODUCTION

This section provides procedures for the checkout and replacement of the various parts used within the cabinet. Before replacing any parts, refer to the Troubleshooting section. It will aid you in determining the cause of the malfunction.

### 2-2. TEST INSTRUMENTS

You may use two test instruments to check the electric components.

1. A continuity light
2. An ohmmeter.

When the manual refers to the circuit being closed, the continuity light will be illuminated or the ohmmeter should read zero unless otherwise noted.

When the manual refers to the circuit being open, the continuity light will not illuminate or the ohmmeter will read 1 (one) or infinite resistance.

### **NOTICE**

A continuity tester cannot be used to check coils.

### 2-3. LIGHT BULB



**Light bulbs and glass may be hot. Severe burns could result.**

1. Remove the glass panel by carefully pushing up on back of panel and sliding away from you. The panel will fall into your hand.
2. Remove the light bulb.

### **2-3. LIGHT BULB** **(Continued)**

3. Replace the light bulb with a Westinghouse #60A19/35, 130 Volt bulb.

#### **NOTICE**

If this bulb is not available, a standard 60 watt bulb will work until a long life bulb can be obtained.

4. Replace the glass panel.

### **2-4. FUSE**

#### **NOTICE**

If all light bulbs go out at once:

1. Turn off the light switch.
2. Locate the fuse holder, next to light switch, and remove the cap by turning it counterclockwise.
3. Pull the fuse from the holder.
4. Replace the fuse with a new 15 amp fuse.
5. Replace the cap.
6. Turn on the lights.

### **2-5. CLEANING WATER** **STRAINER**

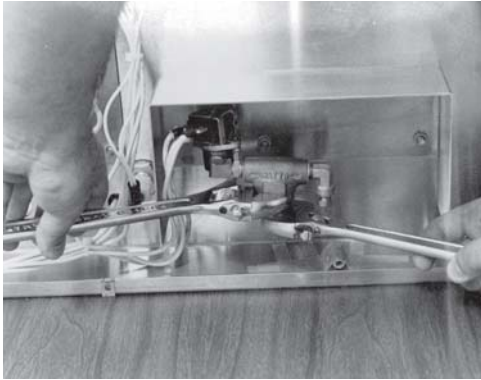
1. Remove electrical power supplied to the cabinet.



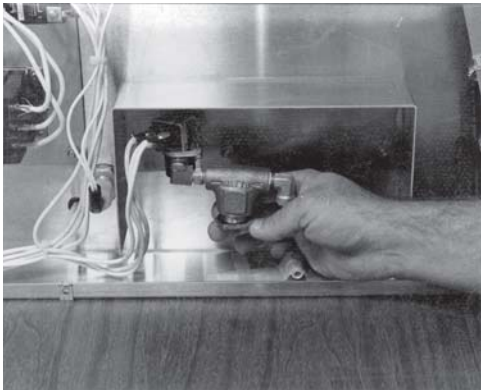
**To avoid electrical shock or property damage, move the power switch to OFF and disconnect main circuit breaker, or unplug cord at wall receptacle.**

2. Shut off the water supply.

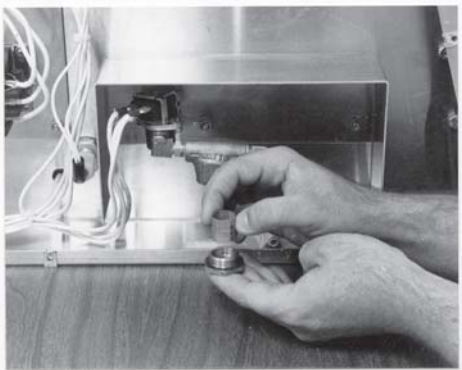
**2-5. CLEANING WATER  
STRAINER (Continued)**



**Step 4**



**Step 4**



**Step 5**

3. Remove the control side end panel.
4. Remove the hex cap at the bottom of the water strainer.
5. Remove the screen from inside the strainer and clean.
6. Reassemble in reverse order.
7. Turn on the water supply and check for leaks.
8. Replace the end panel.
9. Turn the power on at the breaker box.

## **2-6. WATER STRAINER** **(REPLACEMENT)**

1. Remove electrical power supplied to the cabinet.



**To avoid electrical shock or property damage, move the power switch to OFF and disconnect main circuit breaker, or unplug cord at wall receptacle.**

2. Shut off the water supply.
3. Remove the control side end panel.
4. Disconnect the water supply tubing.
5. Remove the brass elbow.
6. Remove the water strainer.
7. Install a new water strainer.
8. Reassemble in reverse order.
9. Turn the water supply on and check for leaks.
10. Replace end panel.
11. Turn on the power supply at the breaker box.

## **2-7. WATER VALVE**

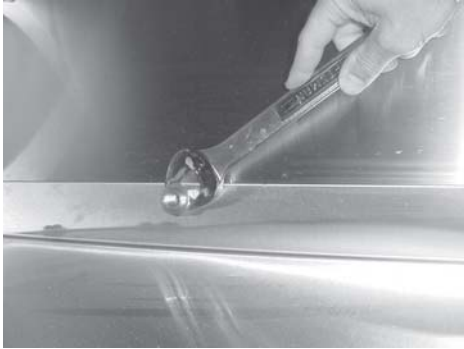
1. Remove electrical power supplied to the cabinet.



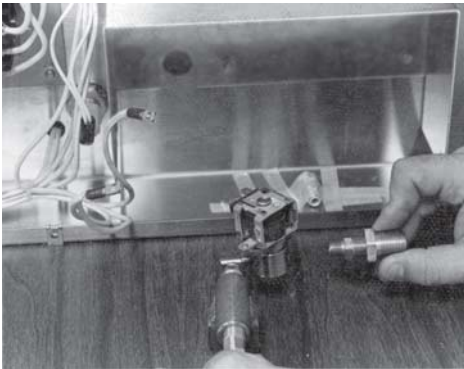
**To avoid electrical shock or property damage, move the power switch to OFF and disconnect main circuit breaker, or unplug cord at wall receptacle.**

2. Shut off the water supply.
3. Remove the control side end panel.

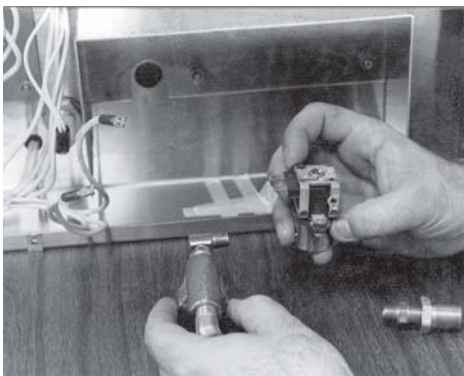
**2-7. WATER VALVE**  
**(Continued)**



**Step 7**



**Step 9**



**Step 10**

4. Check across terminals of the water valve with an ohmmeter. The meter reading should be 600-650, if reading is not correct replace the water valve by continuing with this procedure.
5. Remove the electrical wires from the water valve.
6. Disconnect water line.
7. Remove the nut from the bulkhead. This is inside the water pan.
8. The water valve assembly can now be removed from the cabinet.
9. Remove the reducer nipple and bulkhead from the water valve.
10. Remove the reducer nipple, water strainer and elbow as one piece.
11. Remove the remaining elbow from the water valve.
12. Reassemble a new valve in reverse order.
13. Turn on the water supply and check for leaks.
14. Replace the end panel.
15. Turn on the power supply at the breaker box.

## **2-8. FLOAT SWITCH**

1. Remove electrical power supplied to the cabinet.



**To avoid electrical shock or property damage, move the power switch to OFF and disconnect main circuit breaker, or unplug cord at wall receptacle.**

2. Drain the water pan by removing the drain standpipe.
3. Remove the control side end panel.
4. Cut float switch wires just behind switch.
5. From inside end channel, remove nylon fitting by unscrewing from float switch.
6. Remove float switch.
7. Install a new float switch in reverse order. Make sure float switch is located in center of hole and silicone washer is positioned properly.



**Step 6**

### **NOTICE**

Tighten nut to snug only. Maximum torque not to exceed 3 ft. pounds.

## **2-8. FLOAT SWITCH** **(Continued)**

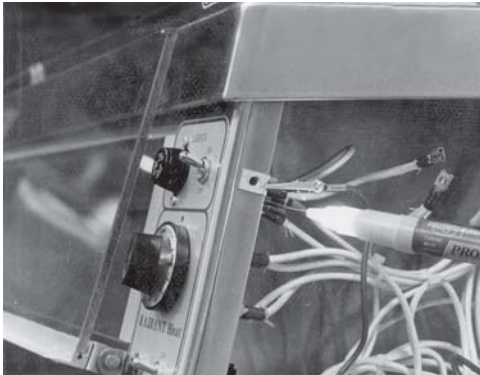
8. Strip the wire ends that were cut, as well as the wire ends on the new float switch. Reconnect wires using wire nuts.
9. Replace the end panel.
10. Turn on the power supply at the breaker box.

## **2-9. LIGHT SWITCH**

1. Remove electrical power supplied to the cabinet.



**To avoid electrical shock or property damage, move the power switch to OFF and disconnect main circuit breaker, or unplug cord at wall receptacle.**



**Step 3**

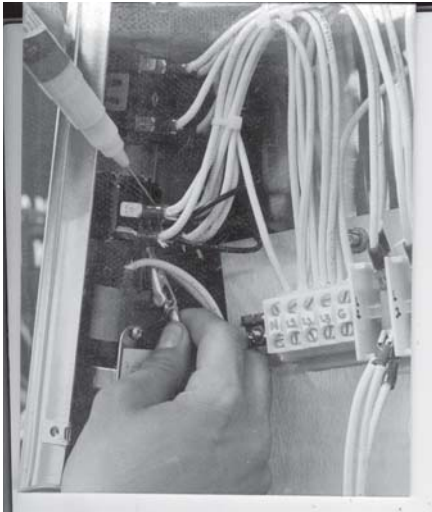
2. Remove control side end panel.
3. Remove the wires from the switch. Using a test instrument, check across the terminals of the switch with the switch in the ON position, then in the OFF position. With the switch in the ON position the circuit should be closed. With the switch in the OFF position the circuit should be open. If the switch checks defective, replace by continuing with this procedure.
4. Remove nut from control panel side and remove switch.
5. Install a new switch in reverse order.
6. Replace the end panel.
7. Turn on the power supply at the breaker box.

## **2-10. POWER SWITCH**

1. Remove electrical power supplied to the cabinet.



**To avoid electrical shock or property damage, move the power switch to OFF and disconnect main circuit breaker, or unplug cord at wall receptacle.**

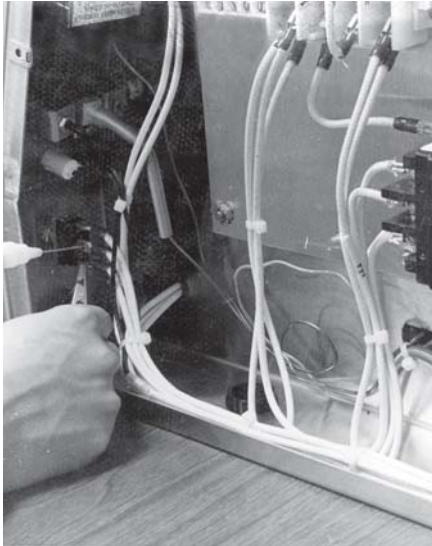


**Step 3**

2. Remove the control side end panel.
3. Remove the electrical wires from the switch. Using a test instrument, check across the terminals of the switch with the switch in the ON position, then in the OFF position. With the switch in the ON position, the circuit should be closed. With the switch in the 0 or OFF position, the circuit should be open. If the switch checks defective, replace by continuing with this procedure.
4. Remove the nut from the control panel side of switch and remove switch.
5. Install a new switch in reverse order.
6. Replace the end panel.
7. Turn on the power supply at the breaker box.



## **2-11. WATER CONTROL SWITCH**



**Step 3**

1. Remove electrical power supplied to the cabinet.



**To avoid electrical shock or property damage, move the power switch to OFF and disconnect main circuit breaker, or unplug cord at wall receptacle.**

2. Remove the control side end panel.
3. Remove the electrical wires from the switch. Using a test instrument, check across the terminals of the switch with the switch in the AUTOMATIC and MANUAL position; then in the OFF position. With the switch in the AUTOMATIC or MANUAL position, the circuit should be closed. With the switch in the 0 or OFF position, the circuit should be open. If the switch checks defective, replace by continuing with this procedure.
4. Remove the nut and guard from the control panel side of the switch and remove the switch.
5. Install a new switch in reverse order.
6. Replace end panel.
7. Turn on the power supply at the breaker box.

## **2-12. INFINITE SWITCH**

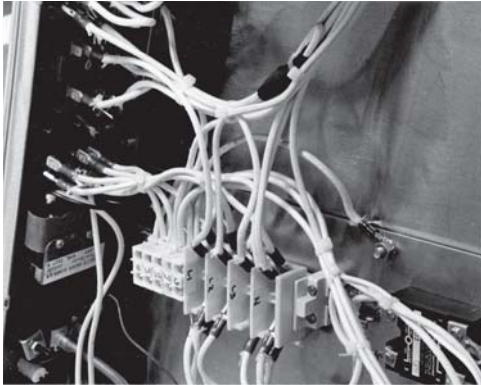
1. Remove electrical power supplied to the cabinet.



**To avoid electrical shock or property damage, move the power switch to OFF and disconnect main circuit breaker, or unplug cord at wall receptacle.**

2. Remove the control side end panel.

## **2-12. INFINITE SWITCH** **(Continued)**



**Step 3**

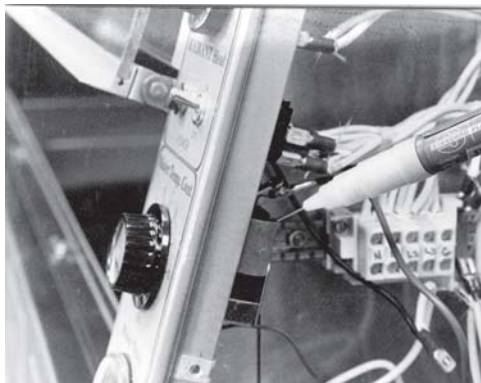
3. Remove the electrical wires from the switch.
4. Remove the switch knob by pulling it off.
5. Remove the nut from the control panel side of the switch and remove the switch.
6. Install a new switch in reverse order.

### **CAUTION**

*Do not connect a "hot" wire to terminal "P" on the infinite switch, or damage to the switch will result.*

7. Replace the end panel.
8. Turn on the power supply at the breaker box.

## **2-13. THERMOSTAT**



**Step 3**

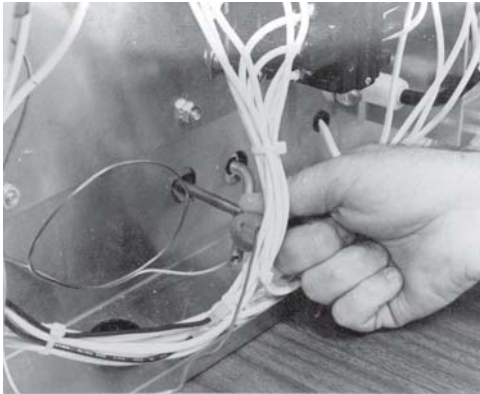
1. Remove electrical power supplied to the cabinet.



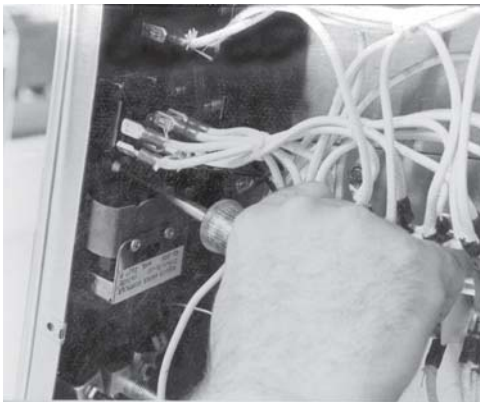
**To avoid electrical shock or property damage, move the power switch to OFF and disconnect main circuit breaker, or unplug cord at wall receptacle.**

2. Remove the control side end panel.
3. Remove the electrical wires from the thermostat. Using a test instrument, check across the terminals of the thermostat. With the thermostat in the 0 or OFF position, the circuit should be open. With the thermostat set at the maximum setting, the circuit should be closed. If the thermostat checks defective, replace it by continuing with this procedure.
4. Remove the thermostat knob by loosening the set screw and pulling it off.

### **2-13. THERMOSTAT** **(Continued)**



**Step 5**



**Step 6**

5. Remove the sensor bulb by pulling on the capillary tube.

6. Remove the two mounting screws from the thermostat.

7. Install a new thermostat in reverse order.

8. Replace the end panel.

9. Turn on the power supply at the breaker box.

### **2-14. INDICATING LIGHT**

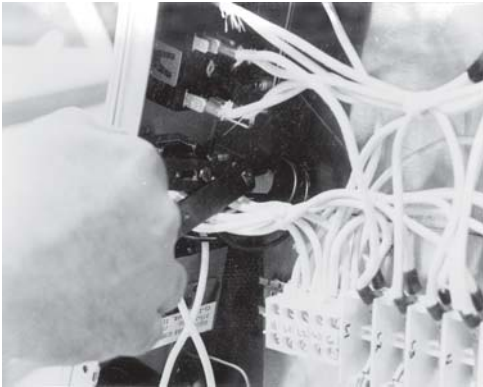
1. Remove electrical power supplied to the cabinet.



**To avoid electrical shock or property damage, move the power switch to OFF and disconnect main circuit breaker, or unplug cord at wall receptacle.**

2. Remove the control side end panel.

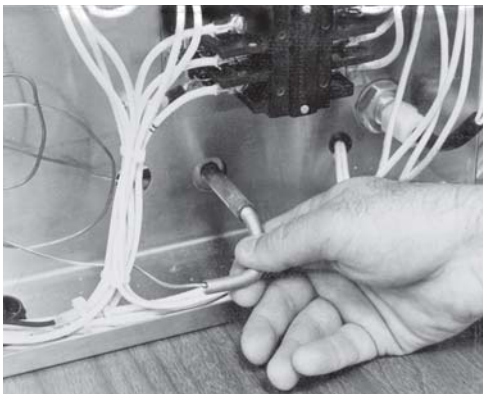
## **2-14. INDICATING LIGHT** **(Continued)**



**Step 3**

3. Cut the light wires just behind the light housing.
4. Squeeze the plastic retainers on the light body and push the light through the control panel.
5. Install a new light by pushing the light through the control panel until the light snaps securely in the panel.
6. Strip the wires and reconnect with wire nuts.
7. Replace the end panel.
8. Turn on the power supply at the breaker box.

## **2-15. THERMOMETER**



**Step 3**



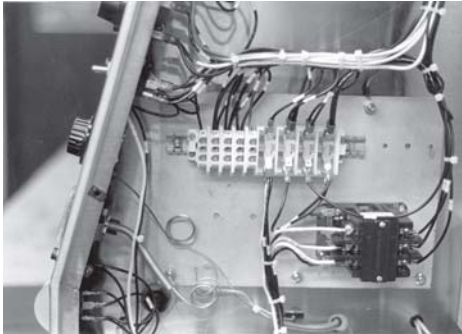
**To avoid electrical shock or property damage, move the power switch to OFF and disconnect main circuit breaker, or unplug cord at wall receptacle.**

1. Remove electrical power supplied to the cabinet.
2. Remove the control side end panel.
3. Remove the sensor bulb by removing bulb retainer and pulling on the capillary tube.
4. Remove the nuts holding the mounting brackets on the back of thermometer housing. Push the thermometer through the control panel.
5. Install a new thermometer in reverse order.
6. Replace the end panel.
7. Turn on the power at the breaker box.



**Step 4**

## **2-16. CONTACTOR**



**To avoid electrical shock or property damage, move the power switch to OFF and disconnect main circuit breaker, or unplug cord at wall receptacle.**

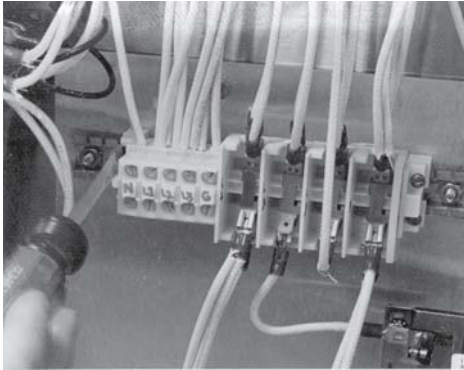
1. Remove electrical power supplied to the cabinet.
2. Remove the control side panel.
3. Remove the electrical wires from the contactor.
4. Remove the five nuts holding the mounting plate to the end channel.
5. Remove the screws holding the contactor to the mounting plate.
6. Install a new contactor in reverse order.
7. Replace the end panel.
8. Turn on the power at the breaker box.

## **2-17. TERMINAL BLOCK**

1. Remove electrical power supplied to the cabinet.



**To avoid electrical shock or property damage, move the power switch to OFF and disconnect main circuit breaker, or unplug cord at wall receptacle.**

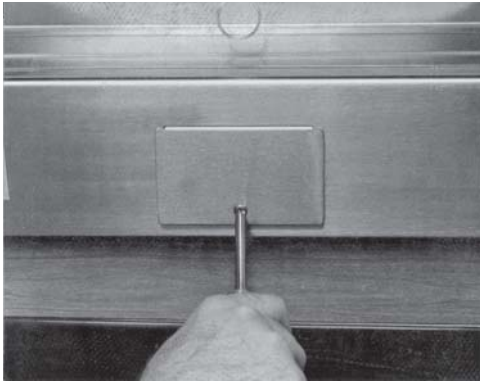


**Step 5**

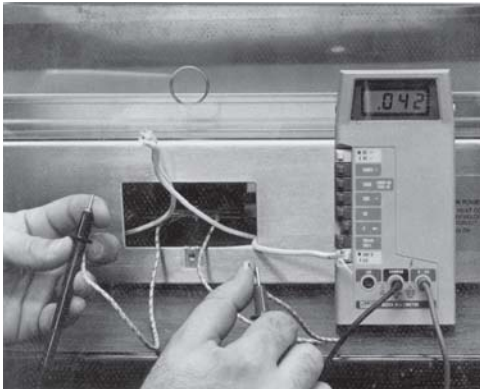
2. Remove the control side panel.
3. Remove the electrical wires from the terminal block.
4. Remove five nuts holding the mounting plate to the end channel.
5. Remove the screws holding the contactor to the mounting plate.
6. Install a new terminal block in reverse order.
7. Replace the end panel.
8. Turn on the power at the breaker box.



## **2-18. WATER PAN HEATER**



**Step 2**



**Step 3**

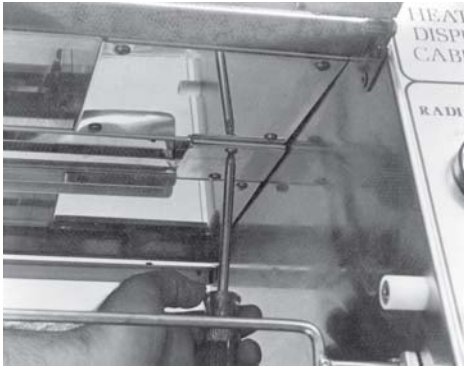
1. Remove electrical power supplied to the cabinet.



**To avoid electrical shock or property damage, move the power switch to OFF and disconnect main circuit breaker, or unplug cord at wall receptacle.**

2. Remove the heater cover plates.
3. Remove the heater wires from the wire nuts. Check across the wires of each heater with an ohmmeter. Each heater should have a reading of 42 ohms for 208 volts and 52 ohms for 230 volts. If a heater checks defective, replace it by continuing with this procedures.
4. Using pliers or vise grips, pull the heater from the unit.
5. Install the new heater in reverse order.
6. Replace the heater cover plates.
7. Turn on the power at the breaker box.

## 2-19. RADIANT HEATER



**Step 2**



**Step 3**

1. Remove electrical power supplied to the cabinet.



**To avoid electrical shock or property damage, move the power switch to OFF and disconnect main circuit breaker, or unplug cord at wall receptacle.**

2. Remove the four screws located at the bottom of the heater housing - two on each end.
3. Remove the electrical wires from the heater. Check with an ohmmeter across end terminals. The ohm reading should be as follows:

HCW-3 (208 volts) .....	43 ohms
HCW-3 (230 volts) .....	53 ohms
HCW-5 lower (208 volts) .....	43 ohms
HCW-5 lower (230 volts) .....	53 ohms
HCW-5 upper (208 volts) .....	108 ohms
HCW-5 upper (230 volts) .....	132 ohms
HCW-8 lower (208 volts) .....	22 ohms
HCW-8 lower (230 volts) .....	26 ohms
HCW-8 upper (208 volts) .....	54 ohms
HCW-8 upper (230 volts) .....	66 ohms

If a heater checks defective, replace it by continuing with this procedure.

4. Slide the brackets off the defective heater and install brackets on new heater.
5. Install the new heater in reverse order.
6. Turn on the power at the breaker box.



## **2-20. LIGHT SOCKET**



**Step 3**

1. Remove electrical power supplied to the cabinet.



**To avoid electrical shock or property damage, move the power switch to OFF and disconnect main circuit breaker, or unplug cord at wall receptacle.**



**Light bulbs and glass may be hot - severe burns could result.**

2. Remove the glass panel and the light bulb.
3. Remove the four screws located at the bottom of the light box.
4. The light box can be pulled down by slightly spreading the ceiling panel sides.
5. Remove the electrical wires from the socket.
6. Remove the two screws holding the socket to the light box.
7. Install a new light socket in reverse order.
8. Turn on the power at the breaker box.

## **2-21. HIGH LIMIT SWITCH**

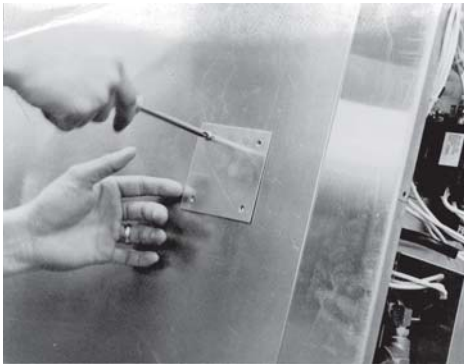
1. Remove electrical power supplied to the cabinet.



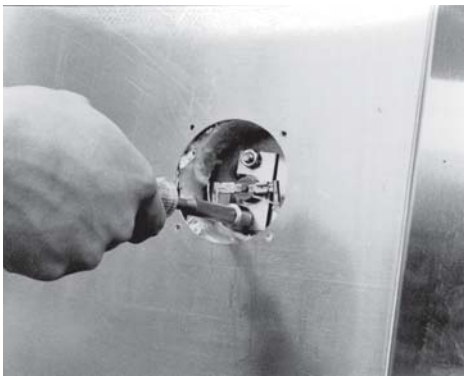
**To avoid electrical shock or property damage, move the power switch to OFF and disconnect main circuit breaker, or unplug cord at wall receptacle.**

2. Remove control end panel.

## **2-21. HIGH LIMIT SWITCH** **(Continued)**



**Step 4**



**Step 5**

3. Check the high limit switch by determining the continuity of the high limit. The continuity check can be made at the terminals where the two high limit wires are connected (one wire goes to the thermostat and the other goes to L1 on the quick-connect terminal block). If the unit is cold or the water temperature is below 150°F (66°C), the high limit should be closed. If the high limit is defective, then replace it by continuing with this procedure.
4. Remove the cover plate located on the bottom of the cabinet.
5. Loosen the nuts on the clamp bracket.
6. Slide the high limit switch from under the bracket.
7. Remove the electrical wires from the high limit. Replace with a new high limit in reverse order.
8. Replace the cover plate.
9. Replace the control end panel.
10. Turn on the power at the breaker box.

## **2-22. CONVERSION**

Conversion of HCW-3 to HCW-5 by adding HCW-2 heated display warmer.

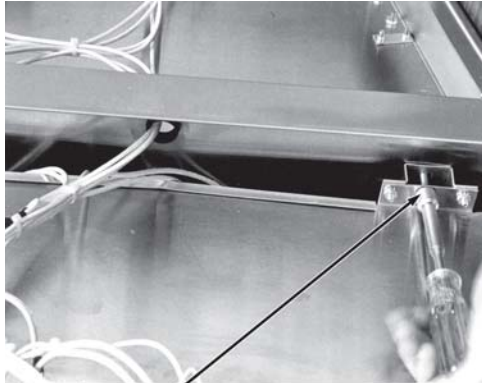
1. Remove power supply.



**To avoid electrical shock or property damage, move the power switch to OFF and disconnect main circuit breaker, or unplug cord at wall receptacle.**

2. Remove both end panels.

## **2-22. CONVERSION** **(Continued)**



**Mounting Nut**

**Step 3**

3. Remove four (4) nuts holding top cap.
4. Remove top cap.
5. Set HCW-2 in place by using same stud holes which the top cap used.
6. Install four (4) nuts which held top cap to retain HCW-2.
7. If your HCW-3 is a three phase unit, then connect the four wires from the HCW-2 as follows:
  - Connect one wire coming from the HCW-2 infinite regulator to an empty terminal on the L<sub>3</sub> quick-connect terminal block.
  - Connect the other wire coming from the HCW-2 infinite regulator to an empty terminal on the L<sub>2</sub> quick-connect terminal block.
  - Connect the wire which comes from the fuse in the HCW-2 to the L<sub>2</sub> screw-clamp terminal block. This should make a total of three wires in this block.
  - By using a two-blade quick-connect adapter, connect the remaining wire to the neutral (N) quick-connect terminal block.
  - Be sure to study enclosed marked field wiring diagram accompanying the HCW-2.

If your HCW-3 is a single phase unit, then connect the four wires from the HCW-2 as follows:

- By using a two-blade quick-connect adapter, connect one wire from the HCW-2 infinite regulator to the L<sub>1</sub> quick-connect terminal block.
- Connect the other wire coming from the HCW-2 infinite regulator to the empty terminal on the L<sub>2</sub> quick-connect terminal block.

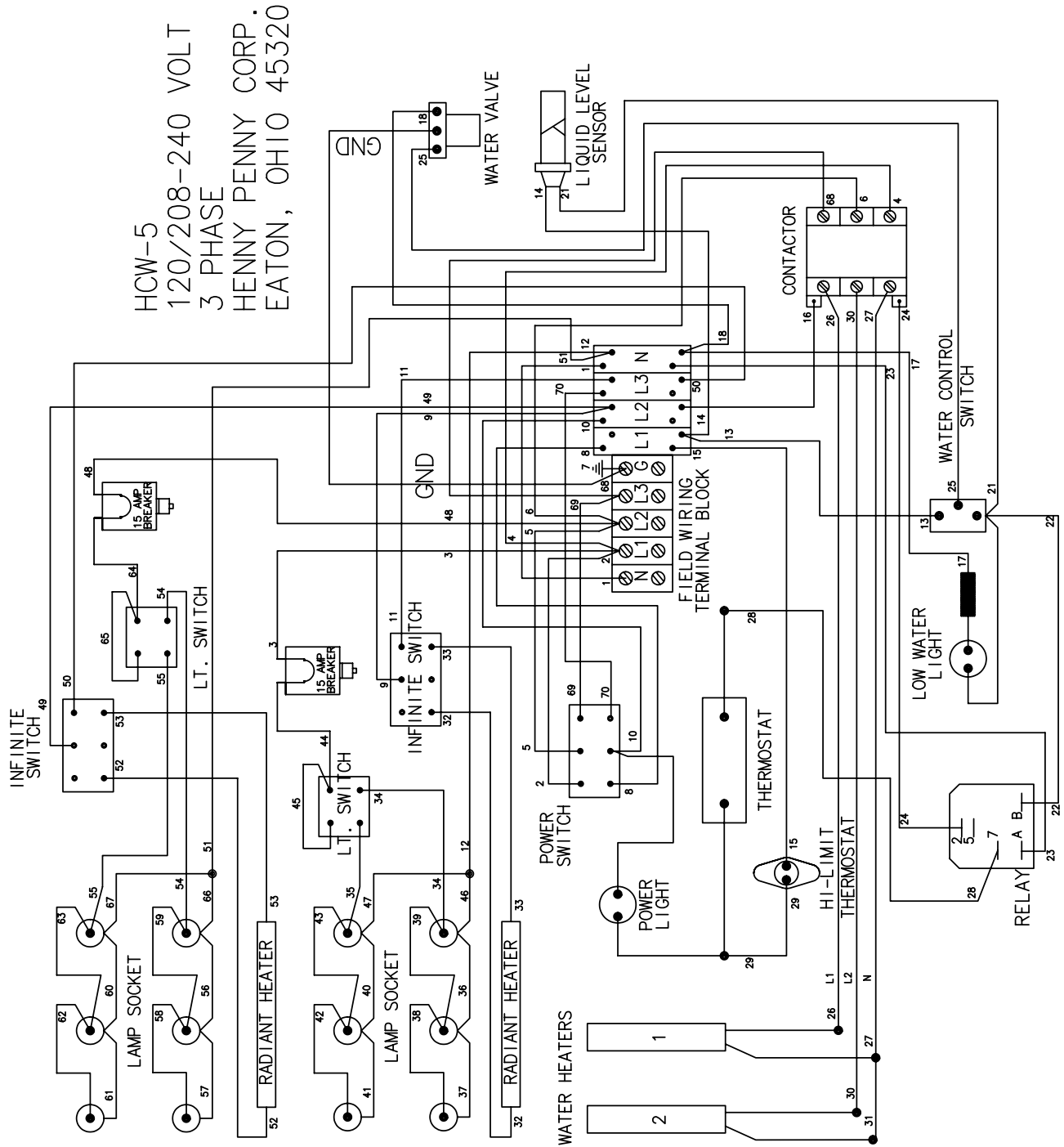
**2-22. CONVERSION**  
**(Continued)**

- Connect the wire coming from the fuse in the HCW-2 to the L<sub>2</sub> screw-clamp terminal block. This should make a total of 3 wires in this block.
- By using a two-blade quick-connect adaptor, connect the remaining wire to the neutral (N) quick-connect terminal block.
- Be sure to study enclosed marked field wiring diagram accompanying the HCW-2.

Your wiring now should match that of a standard HCW-5.

8. Test out all systems.
9. Replace the end panels.

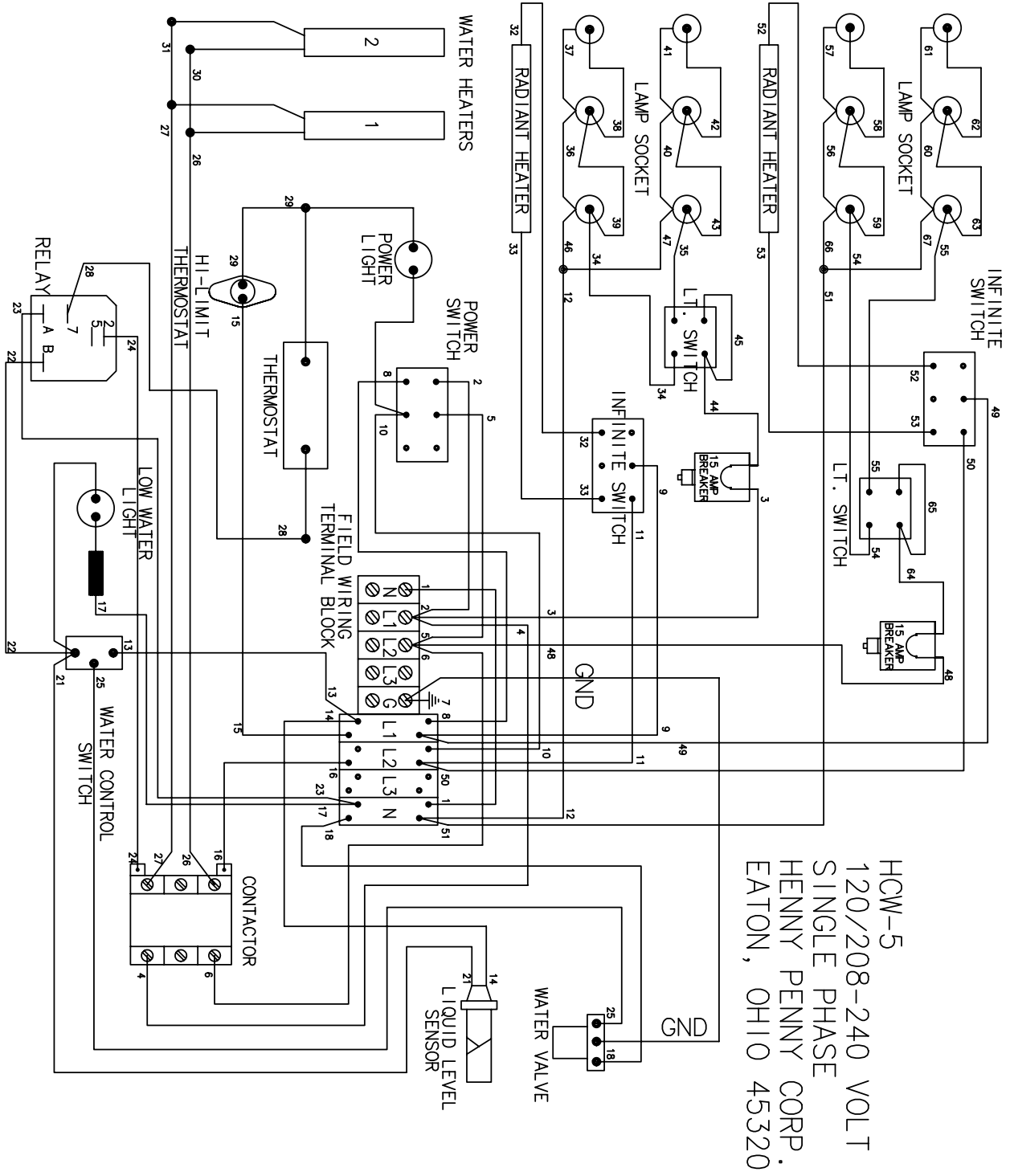
## 2-23. WIRING DIAGRAMS



(SN: JA0705006 & Above)

**2-23. WIRING DIAGRAMS (Continued)**

42106

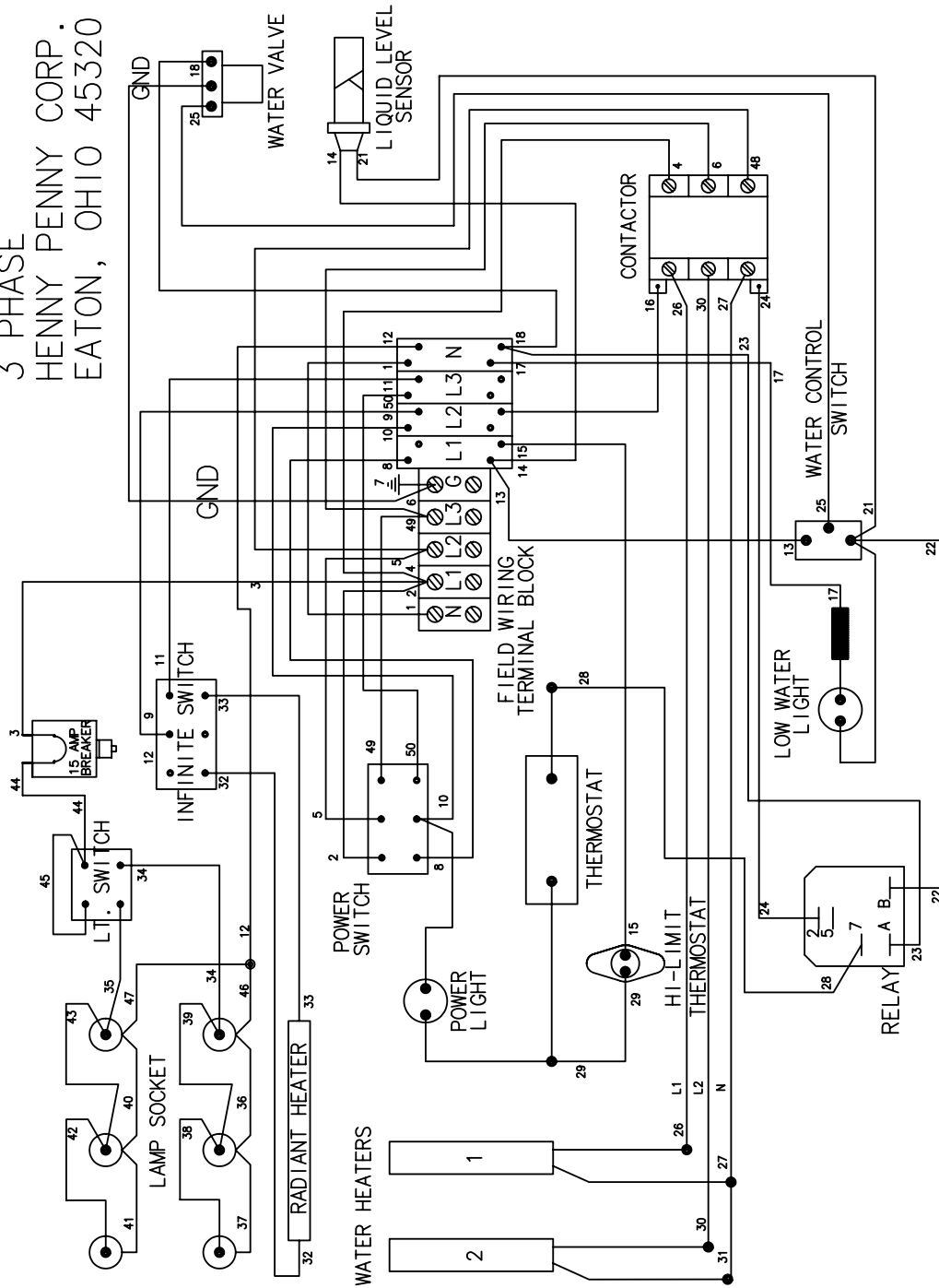


HCW-5  
120/208-240 VOLT  
SINGLE PHASE  
HENNY PENNY CORP.  
EATON, OHIO 45320

(SN: JA0705006 & Above)

**2-23. WIRING DIAGRAMS (Continued)**

HCW-3  
120/208-240V  
3 PHASE  
HENNY PENNY CORP.  
EATON, OHIO 45320

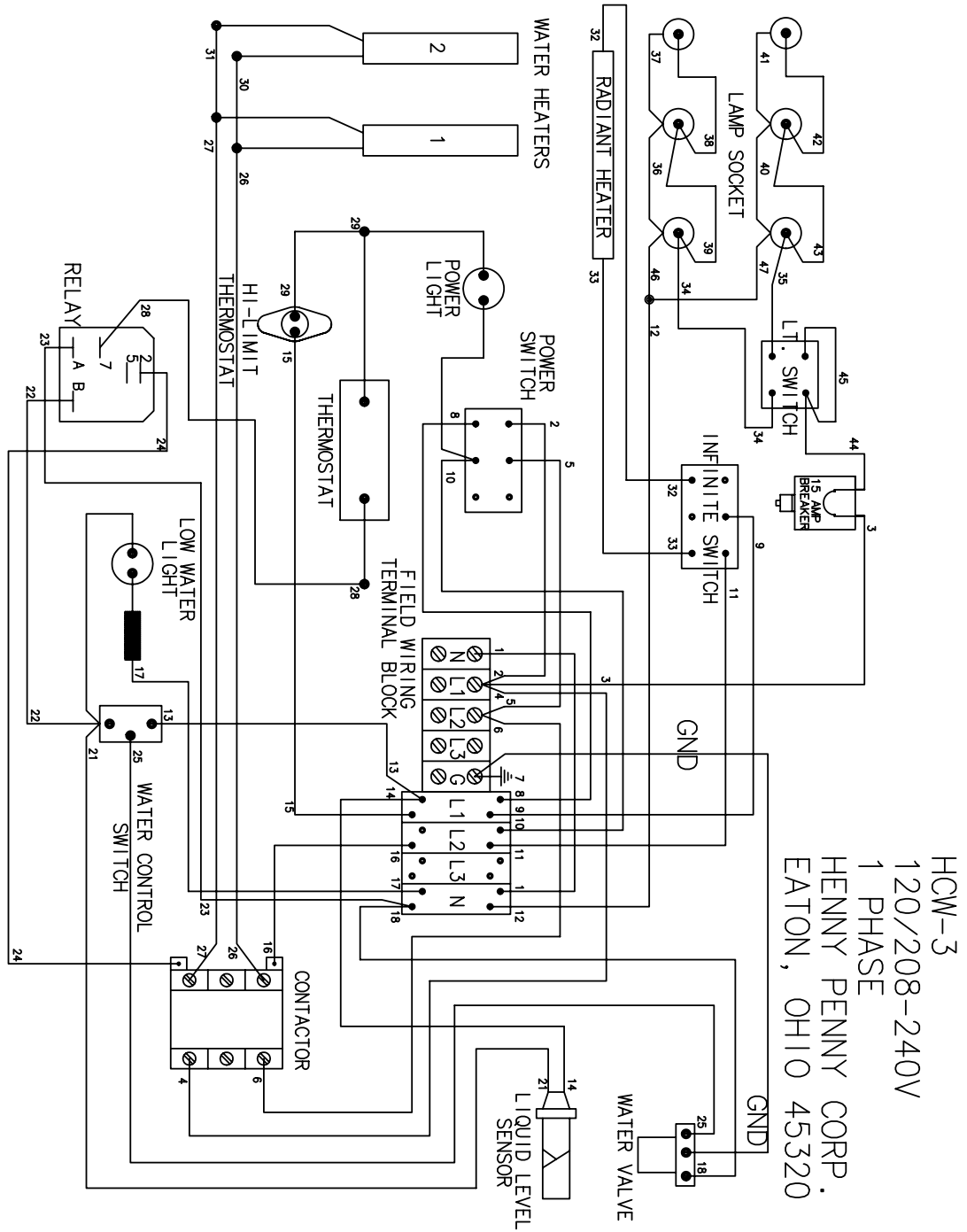


(SN: JA0705006 & Above)

42939

**2-23. WIRING DIAGRAMS (Continued)**

42938

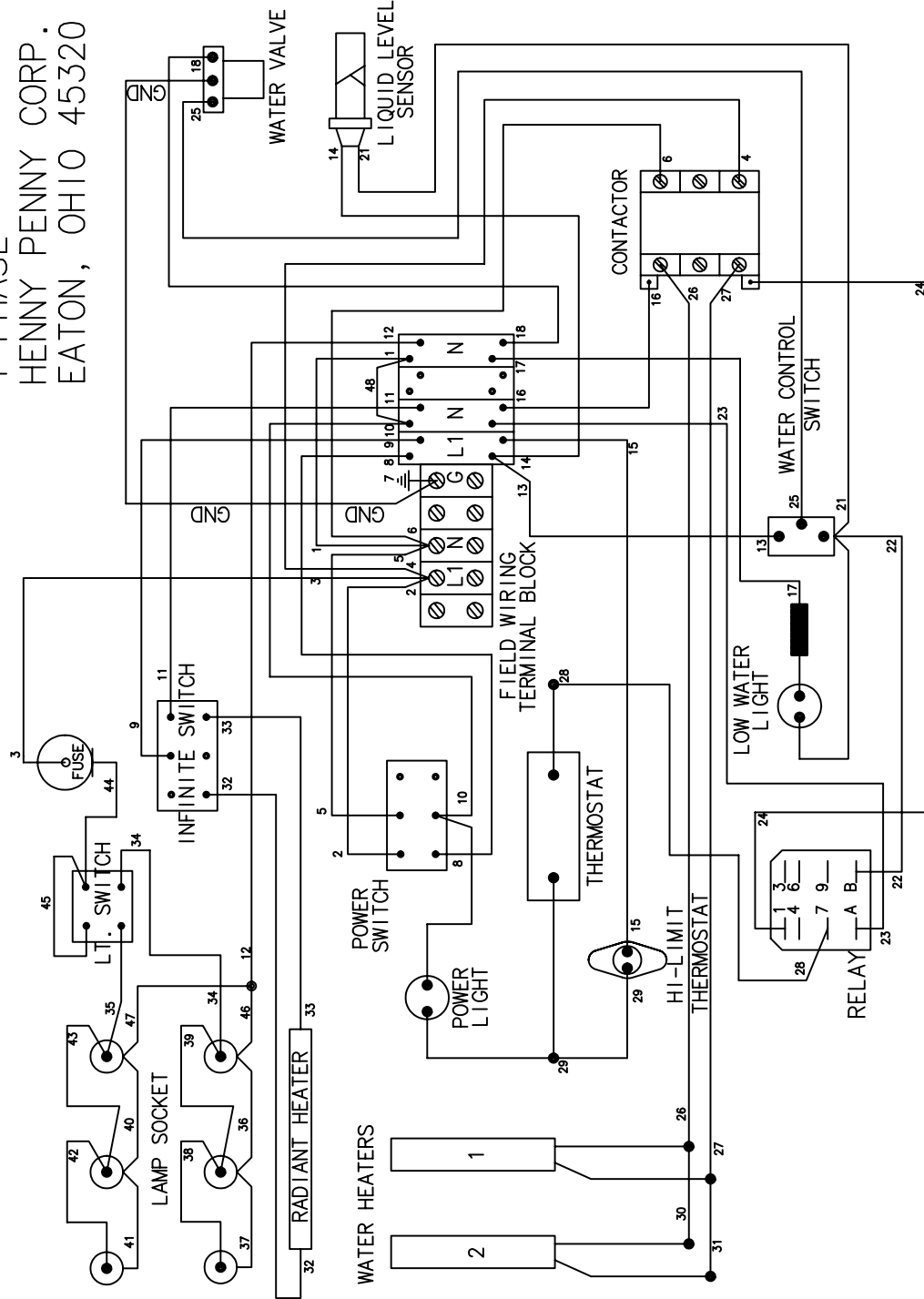


(SN: JA0705006 & Above)



**2-23. WIRING DIAGRAMS (Continued)**

HCW-3  
240V  
1 PHASE  
HENNY PENNY CORP.  
EATON, OHIO 45320

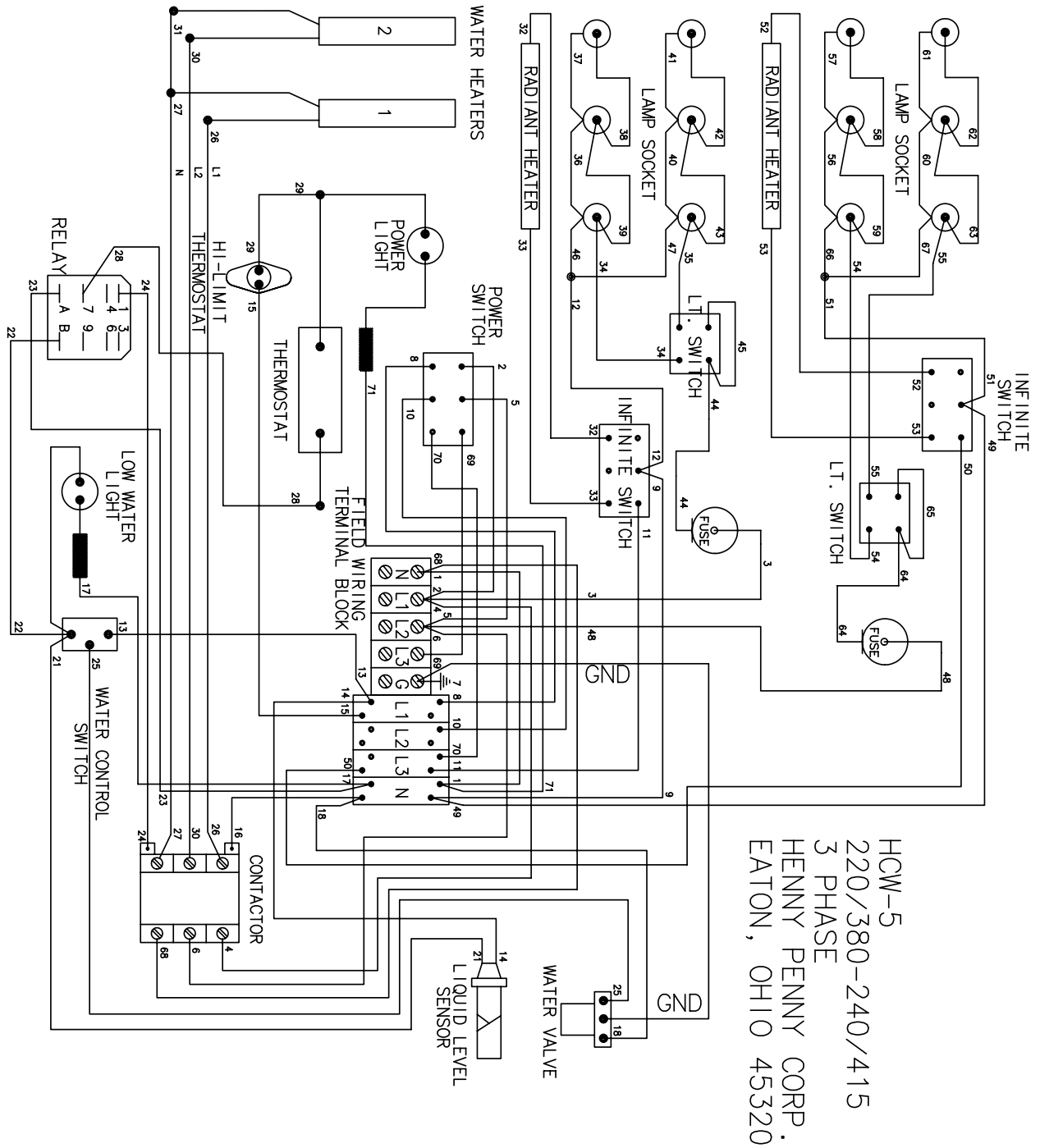


(SN: JA0705006 & Above)

42937

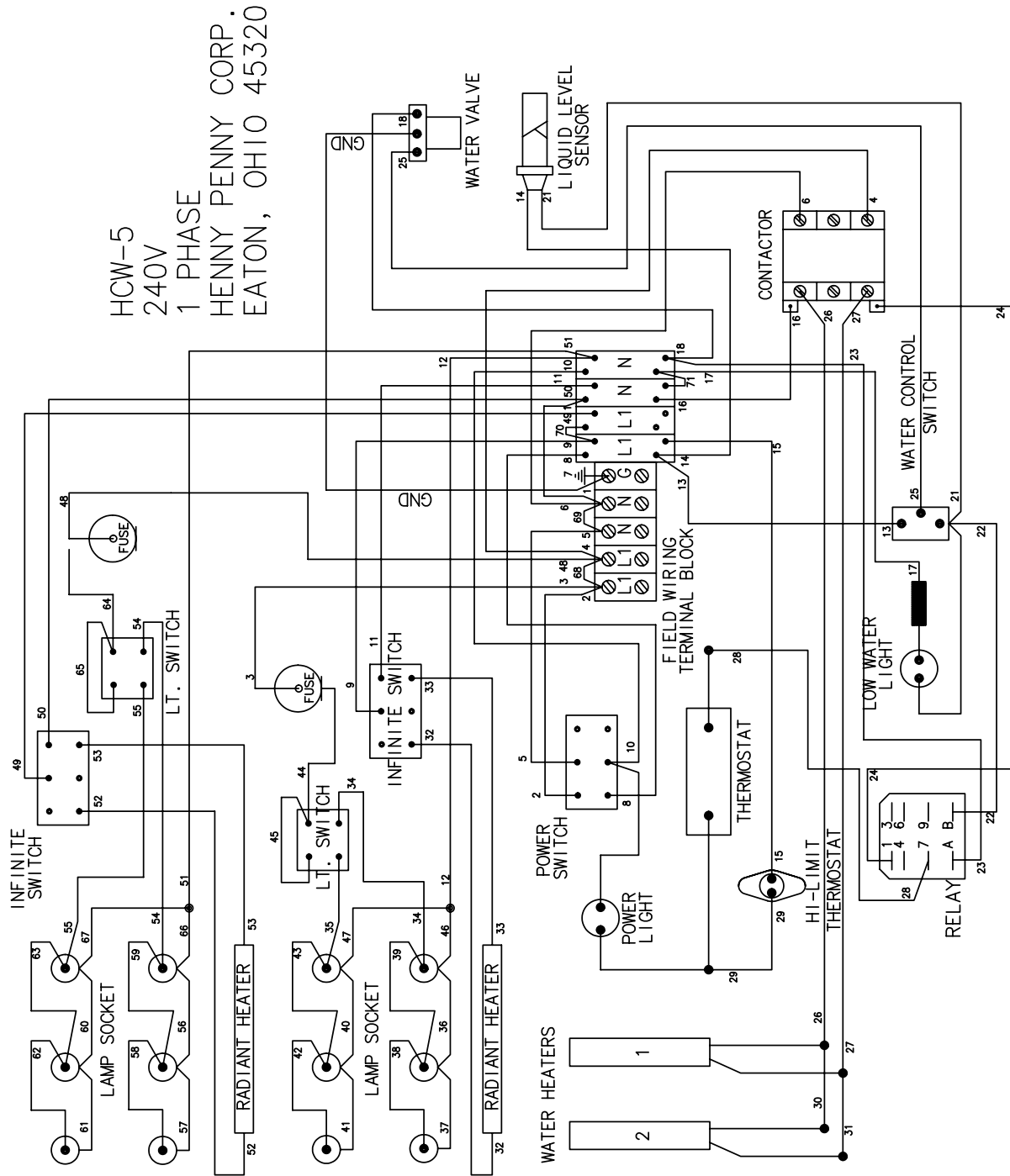
**2-23. WIRING DIAGRAMS (Continued)**

42936



(SN: JA0705006 & Above)

**2-23. WIRING DIAGRAMS (Continued)**

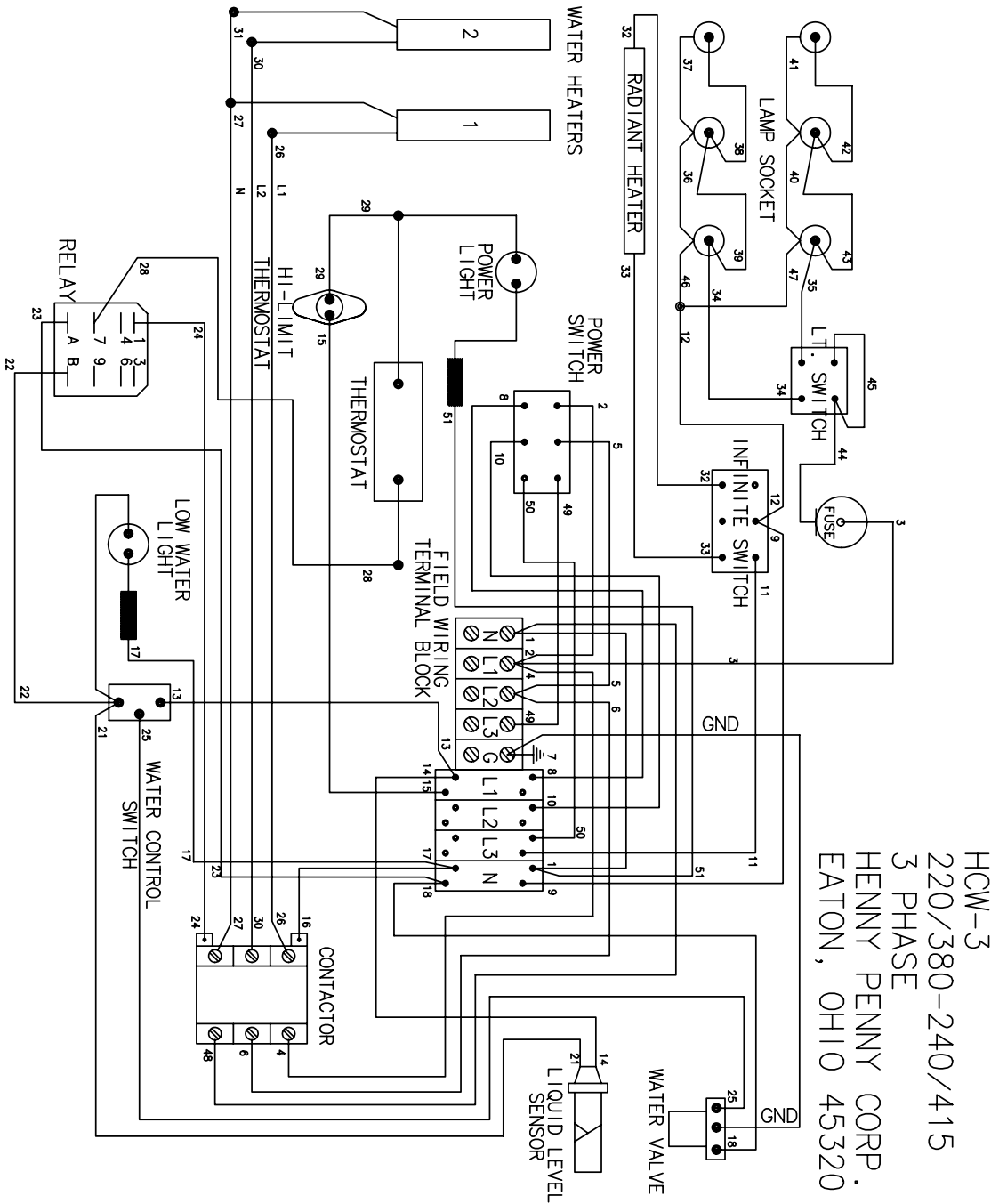


(SN: JA0705006 & Above)

42935

**2-23. WIRING DIAGRAMS (Continued)**

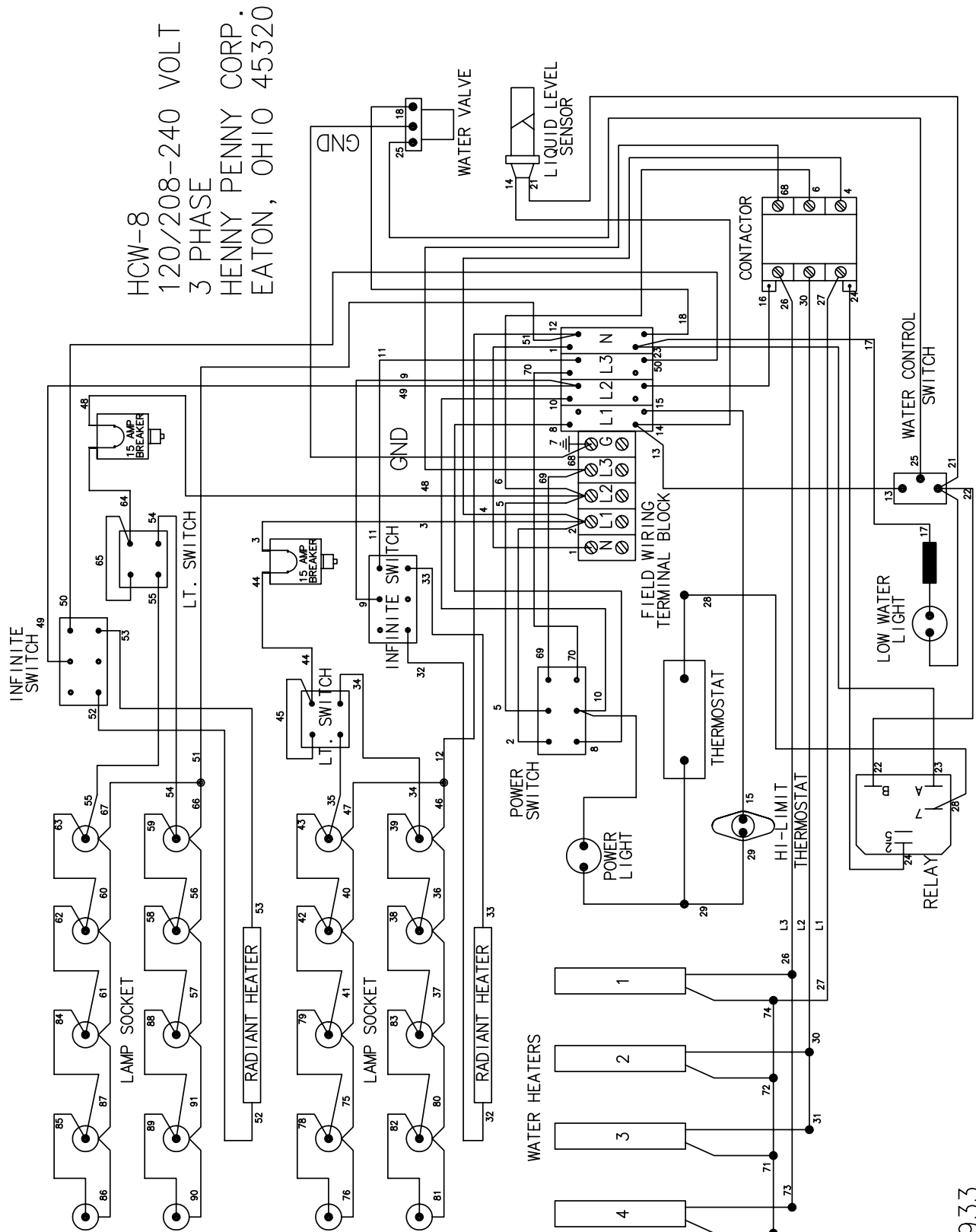
42934



HCW-3  
220/380-240/415  
3 PHASE  
HENNY PENNY CORP.  
EATON, OHIO 45320

(SN: JA0705006 & Above)

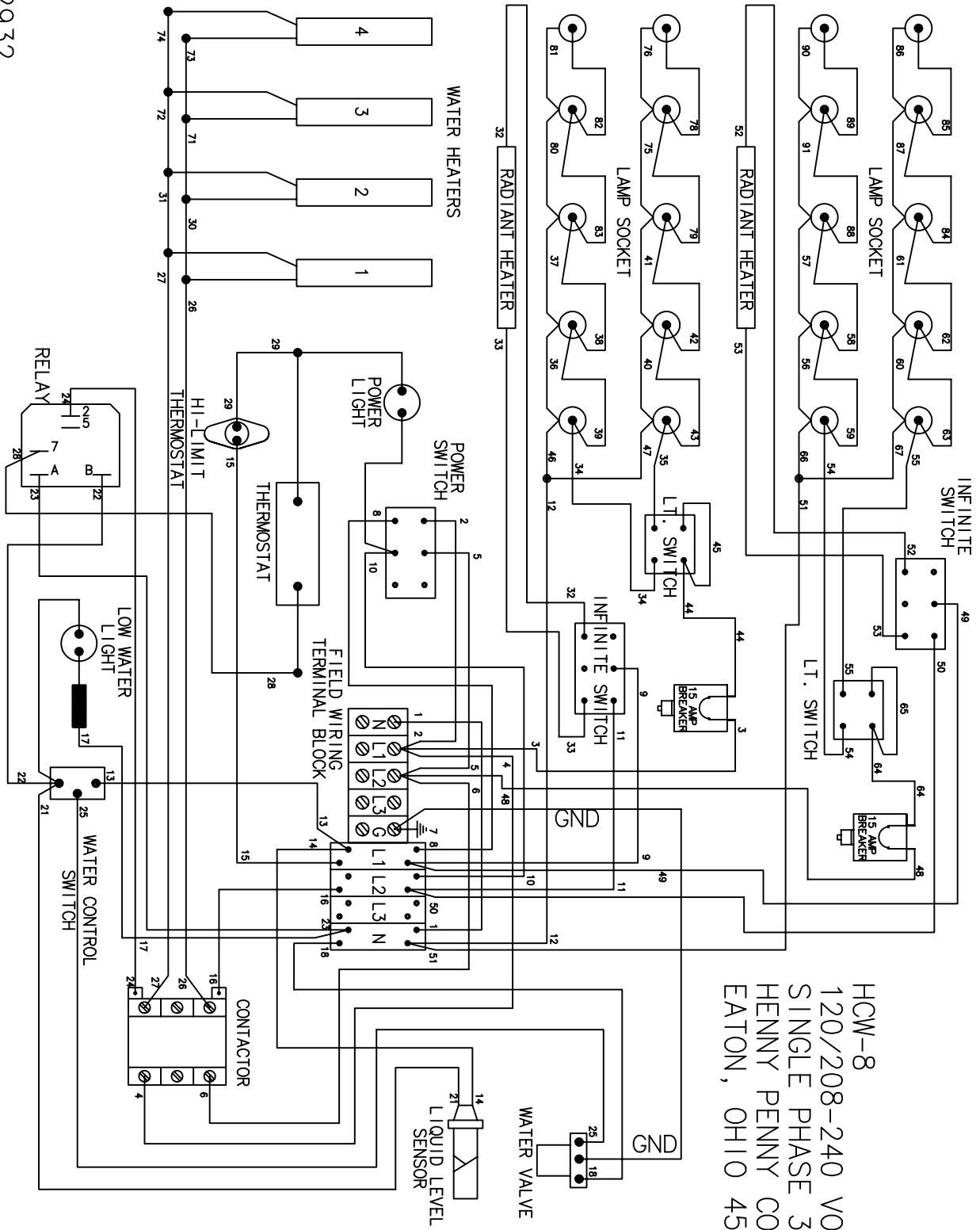
**2-23. WIRING DIAGRAMS (Continued)**



(SN: JA0705006 & Above)

42933

## 2-23. WIRING DIAGRAMS (Continued)

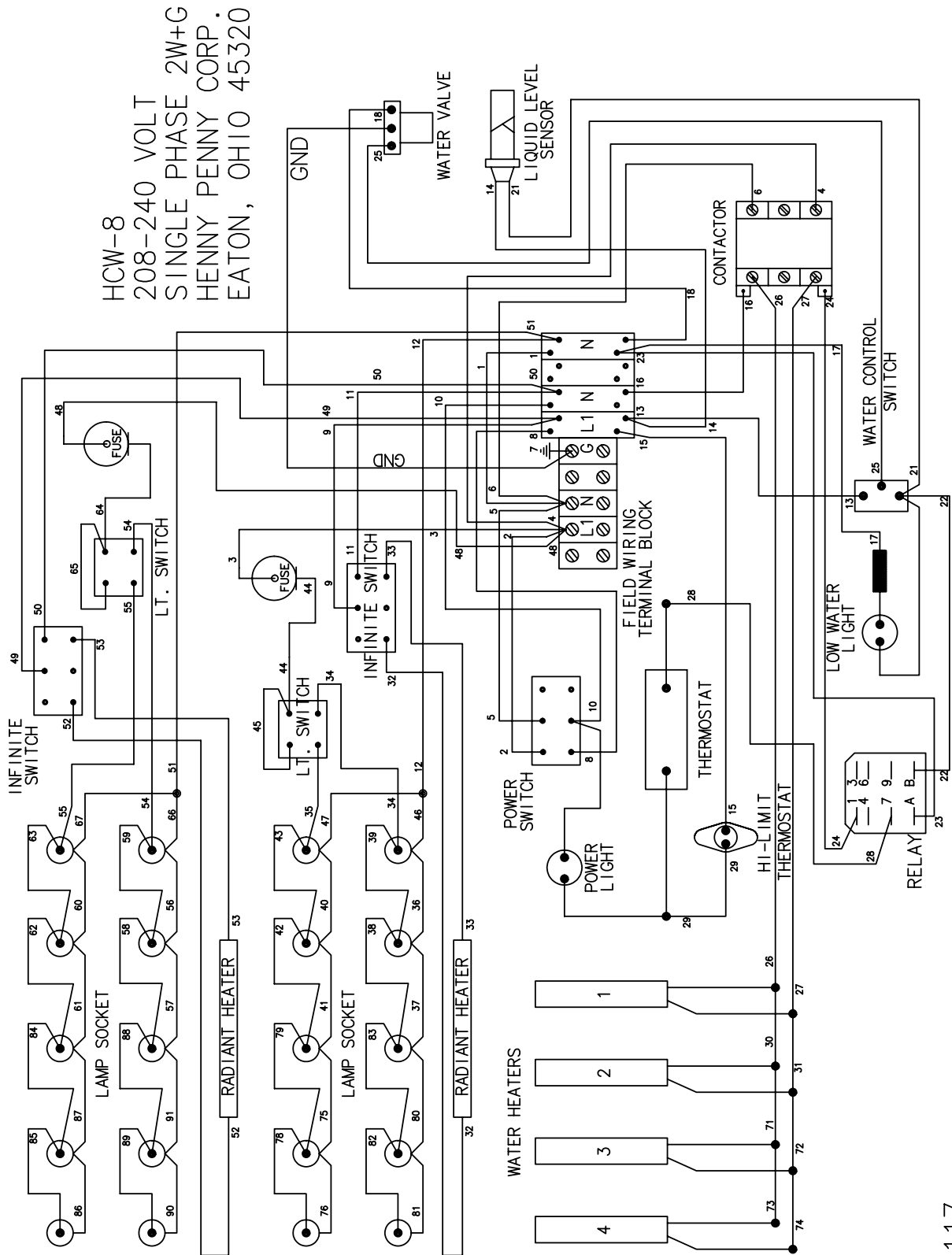


HCV-8  
120/208-240 VOLT  
SINGLE PHASE 3W+G  
HENNY PENNY CORP.  
EATON, OHIO 45320

(SN: JA0705006 & Above)

42932

**2-23. WIRING DIAGRAMS (Continued)**

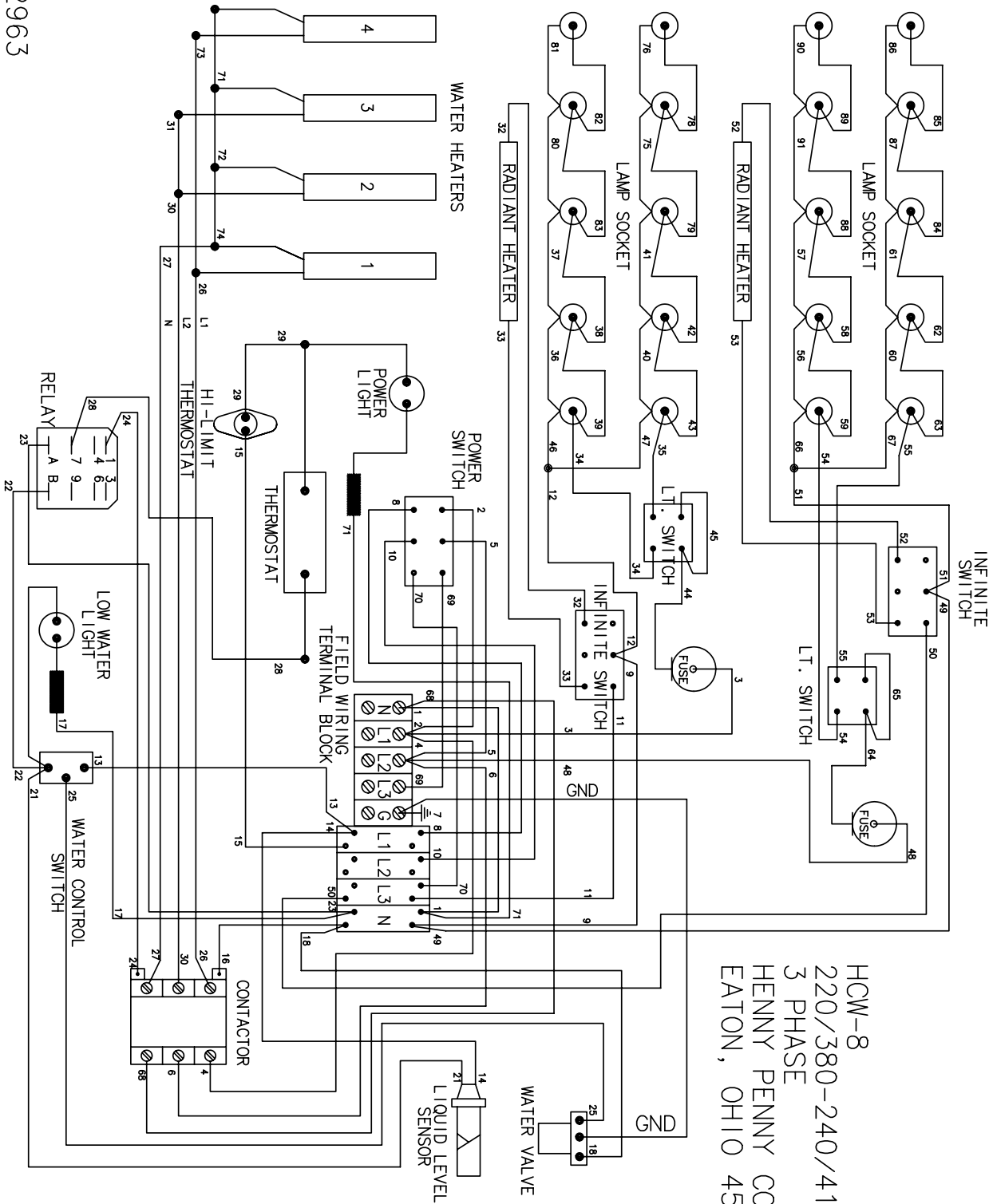


(SN: JA0705006 & Above)

43117

**2-23. WIRING DIAGRAMS (Continued)**

42963

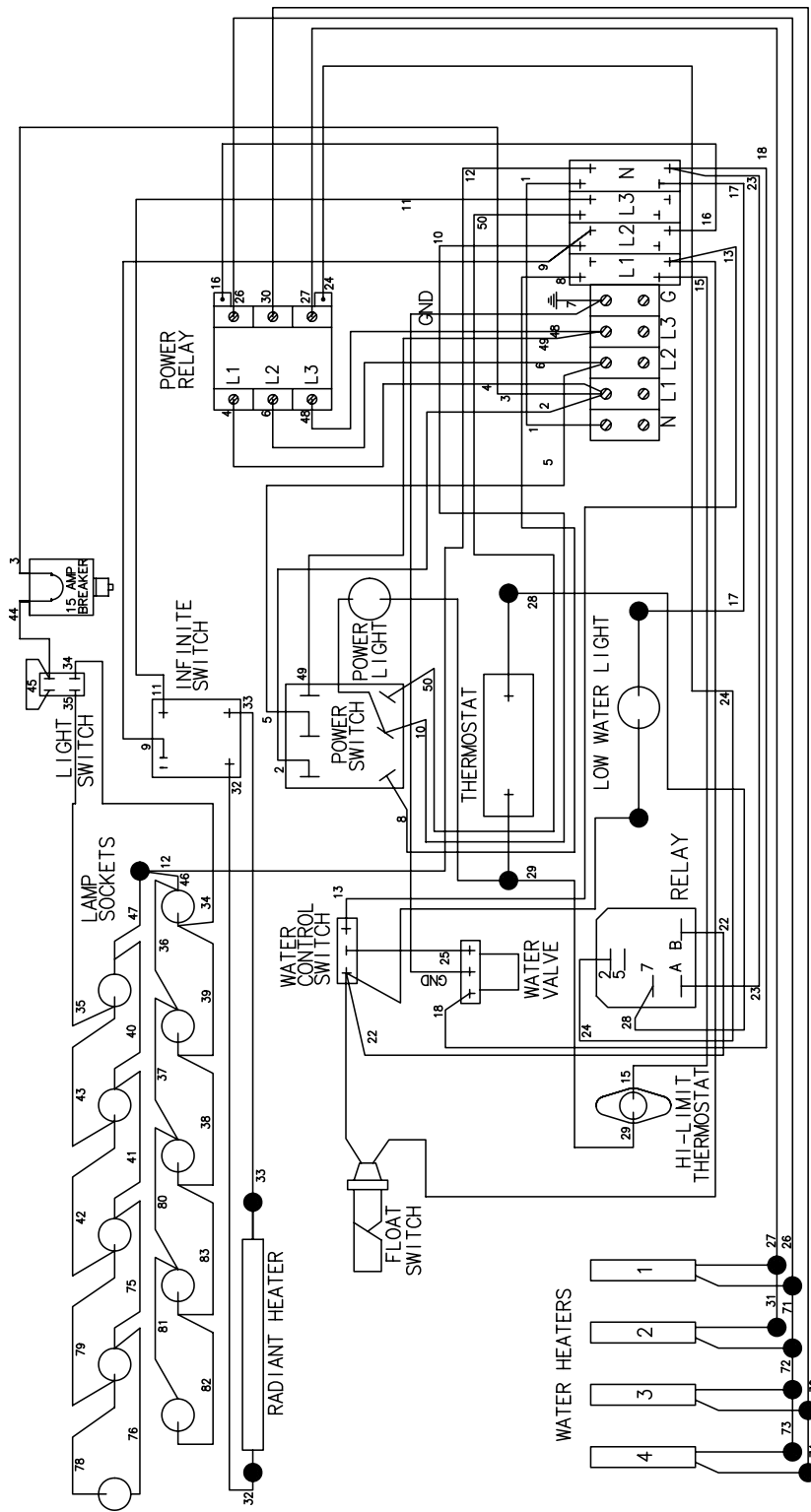


HCW-8  
220/380-240/415V  
3 PHASE  
HENNY PENNY CORP.  
EATON, OHIO 45320

(SN: JA0705006 & Above)



## 2-23. WIRING DIAGRAMS (Continued)

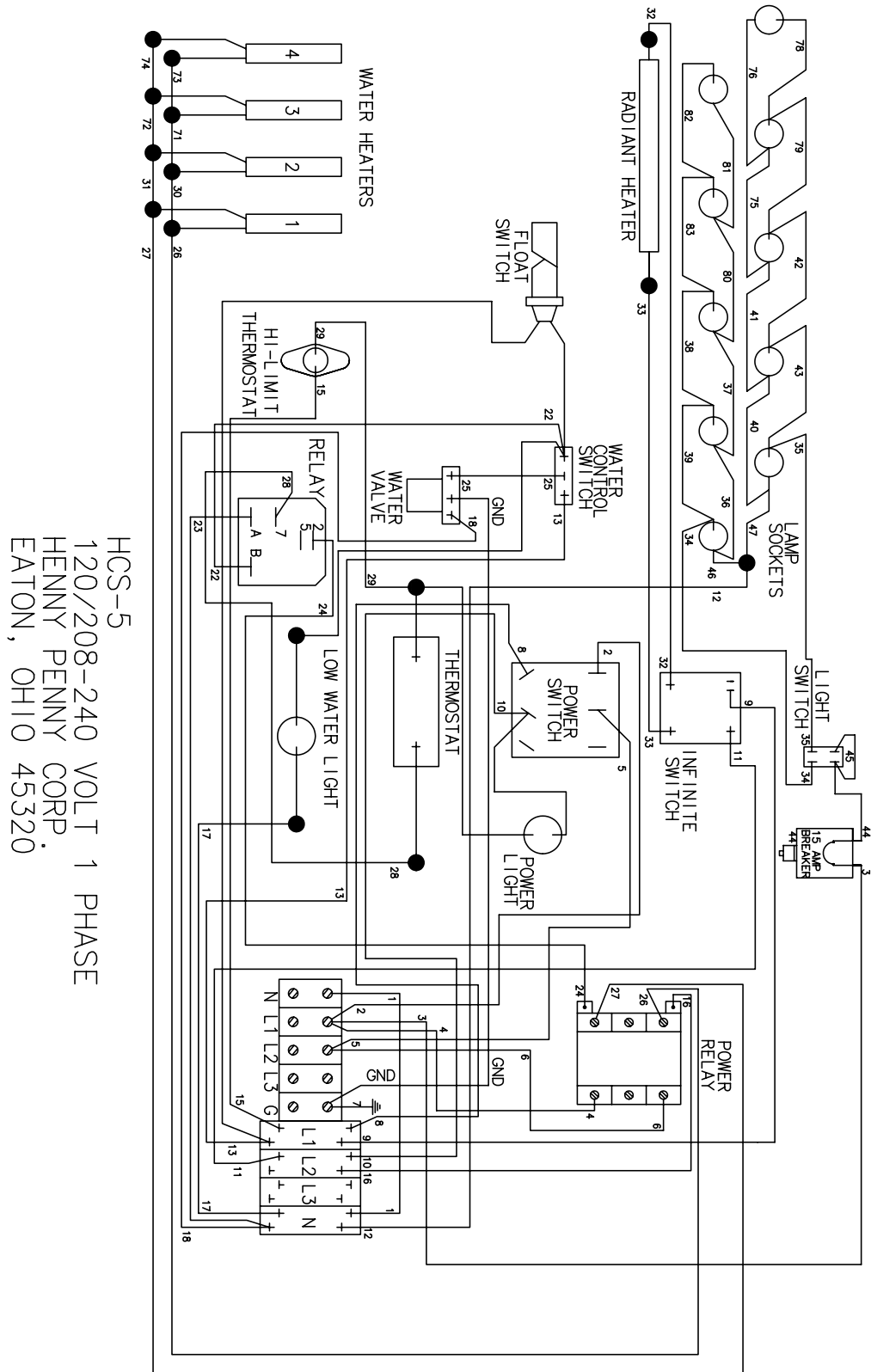


HCS-5  
120/208-240 VOLT 3 PHASE  
HENNY PENNY CORP.  
EATON, OHIO 45320

43148

**(SN: JA0705006 & Above)**

**2-23. WIRING DIAGRAMS (Continued)**

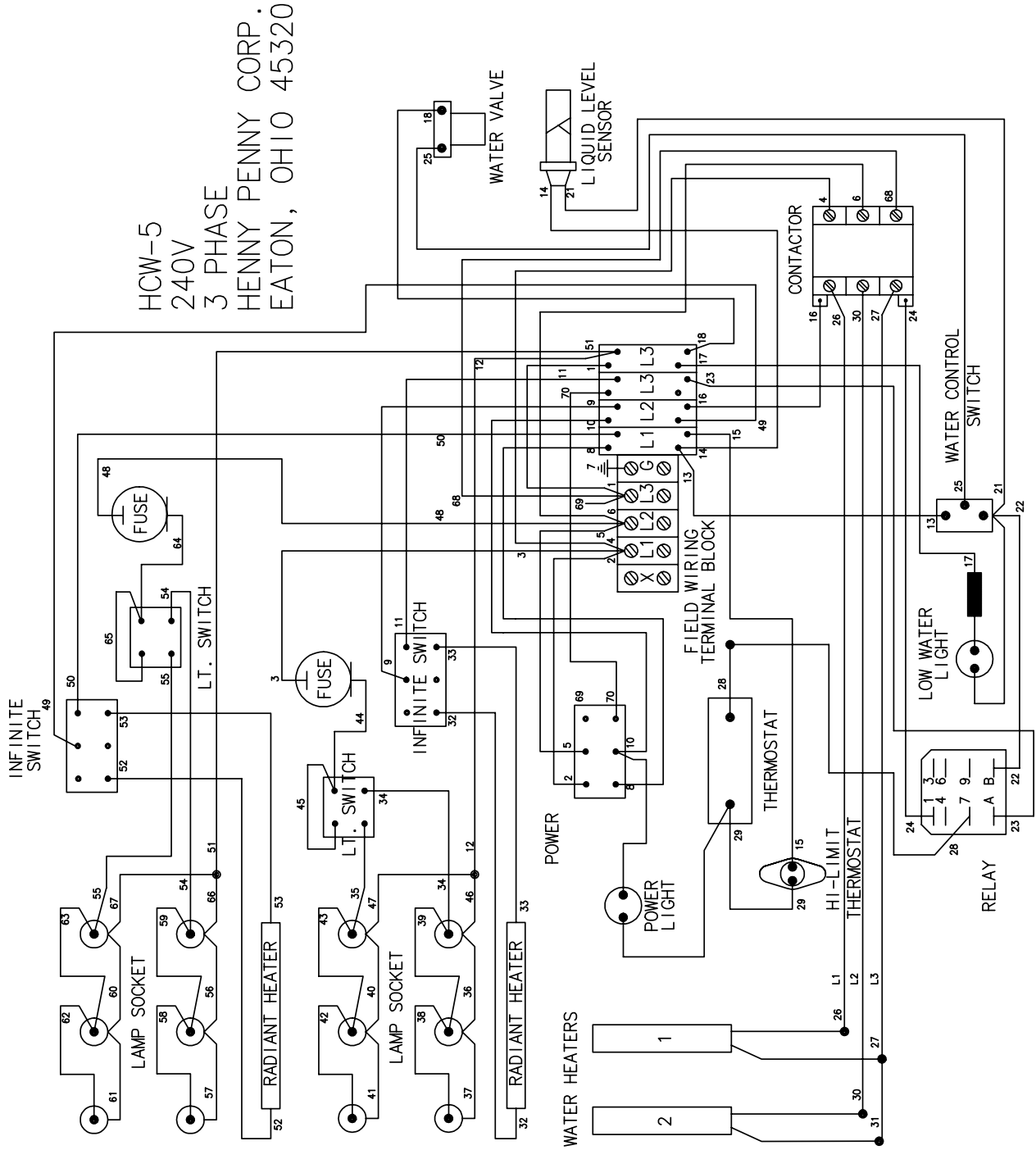


HCS-5  
120/208-240 VOLT 1 PHASE  
HENNY PENNY CORP.  
EATON, OHIO 45320

(SN: JA0705006 & Above)

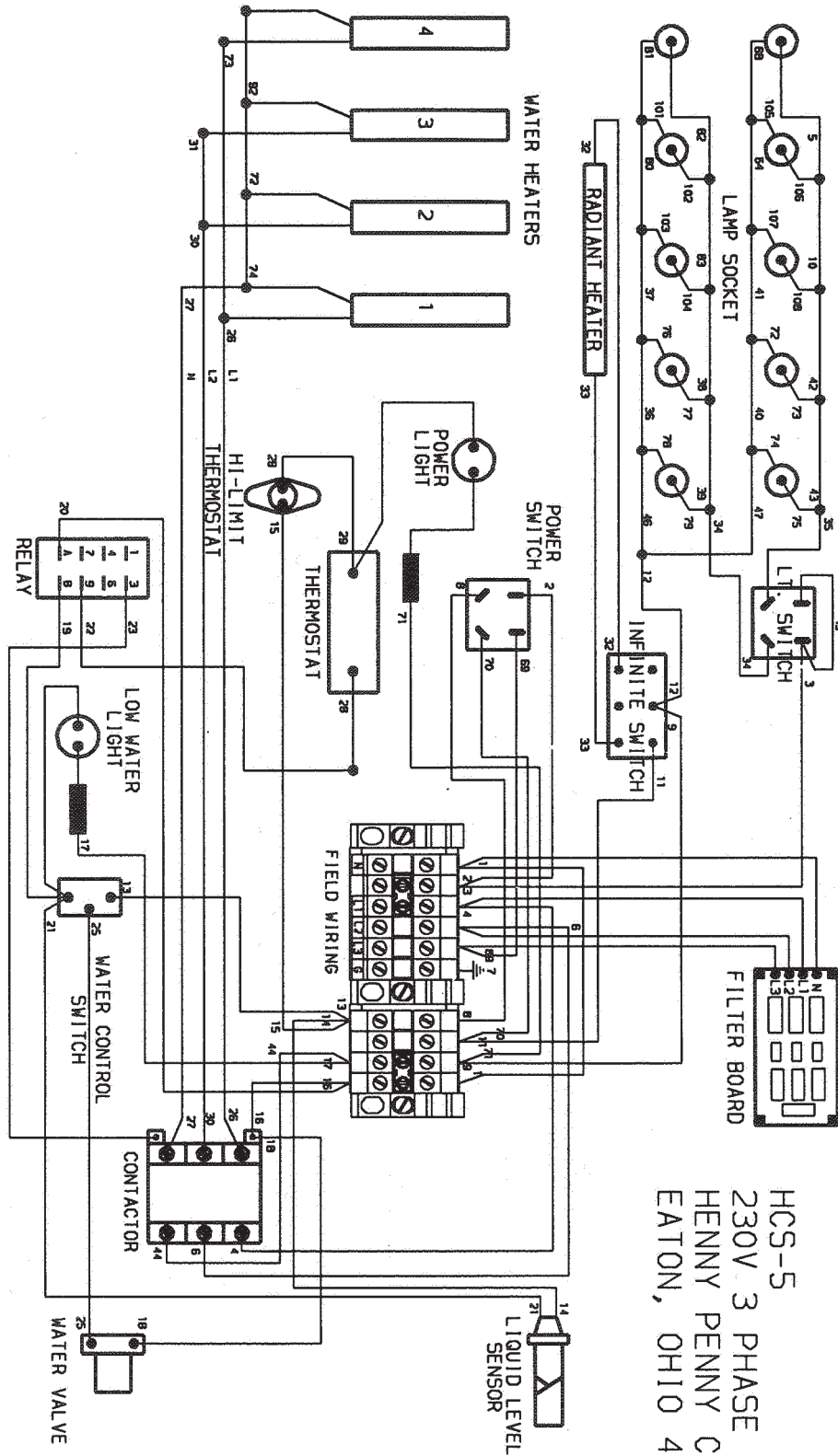
43153

**2-23. WIRING DIAGRAMS (Continued)**



**2-23. WIRING DIAGRAMS (Continued)**

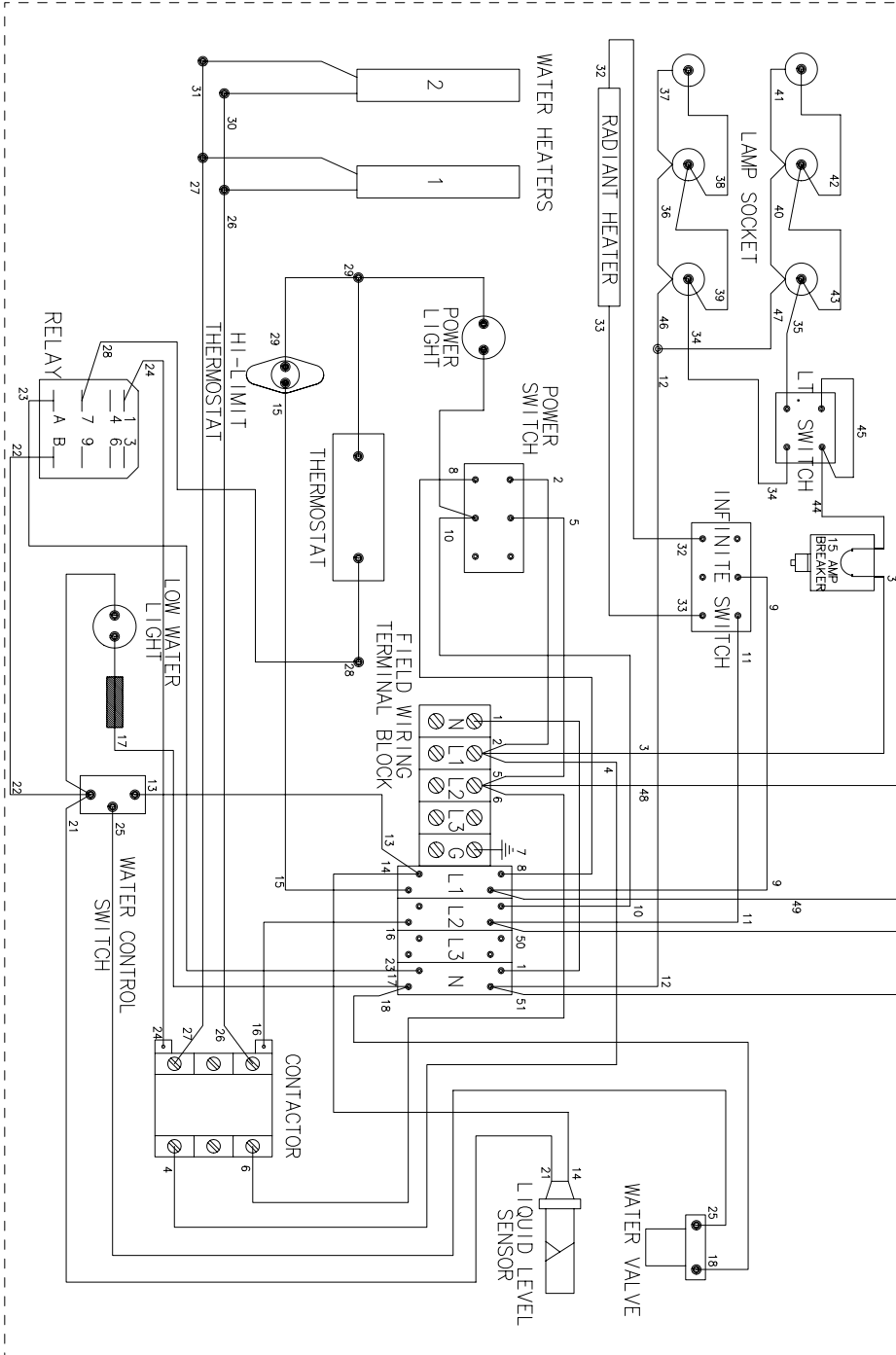
49486



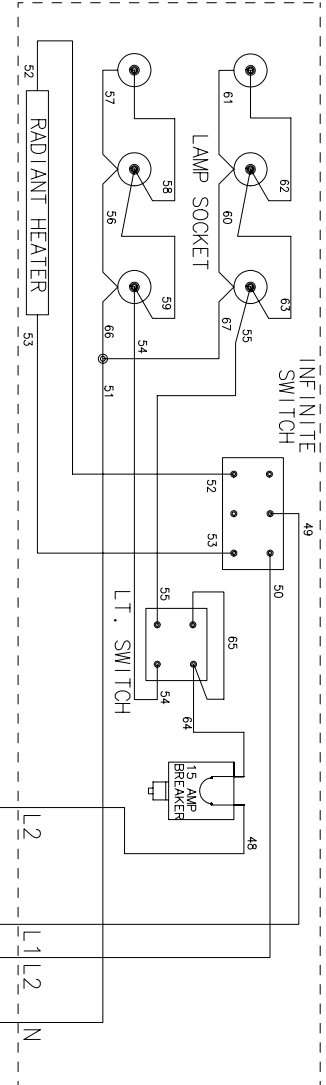
**2-23. WIRING DIAGRAMS (Continued)**

50625

HCW-3 PORTION

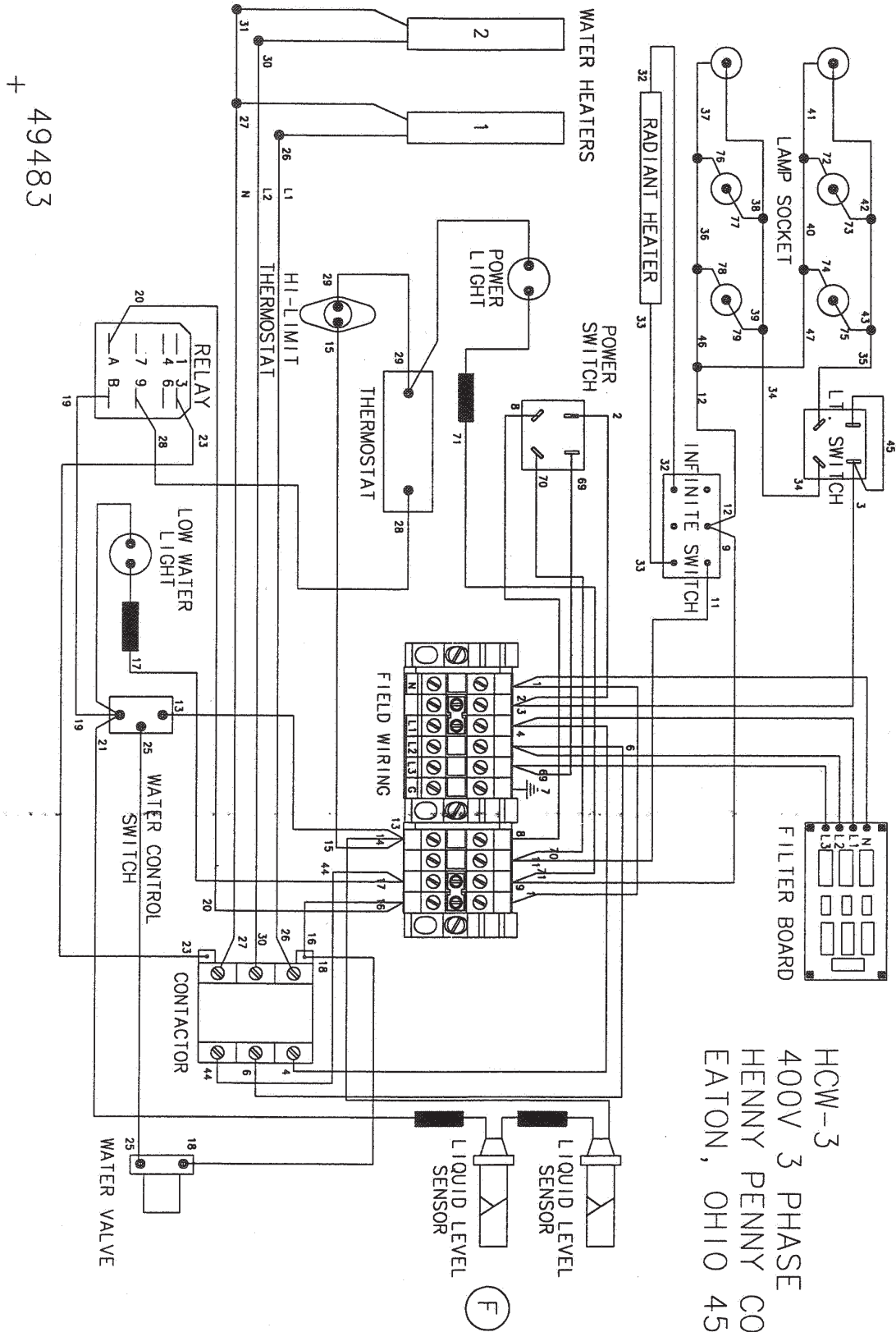


HCW-2 PORTION



HCW-5  
120/208-240 VOLT  
SINGLE PHASE  
HENNY PENNY CORP.  
EATON, OHIO 45320

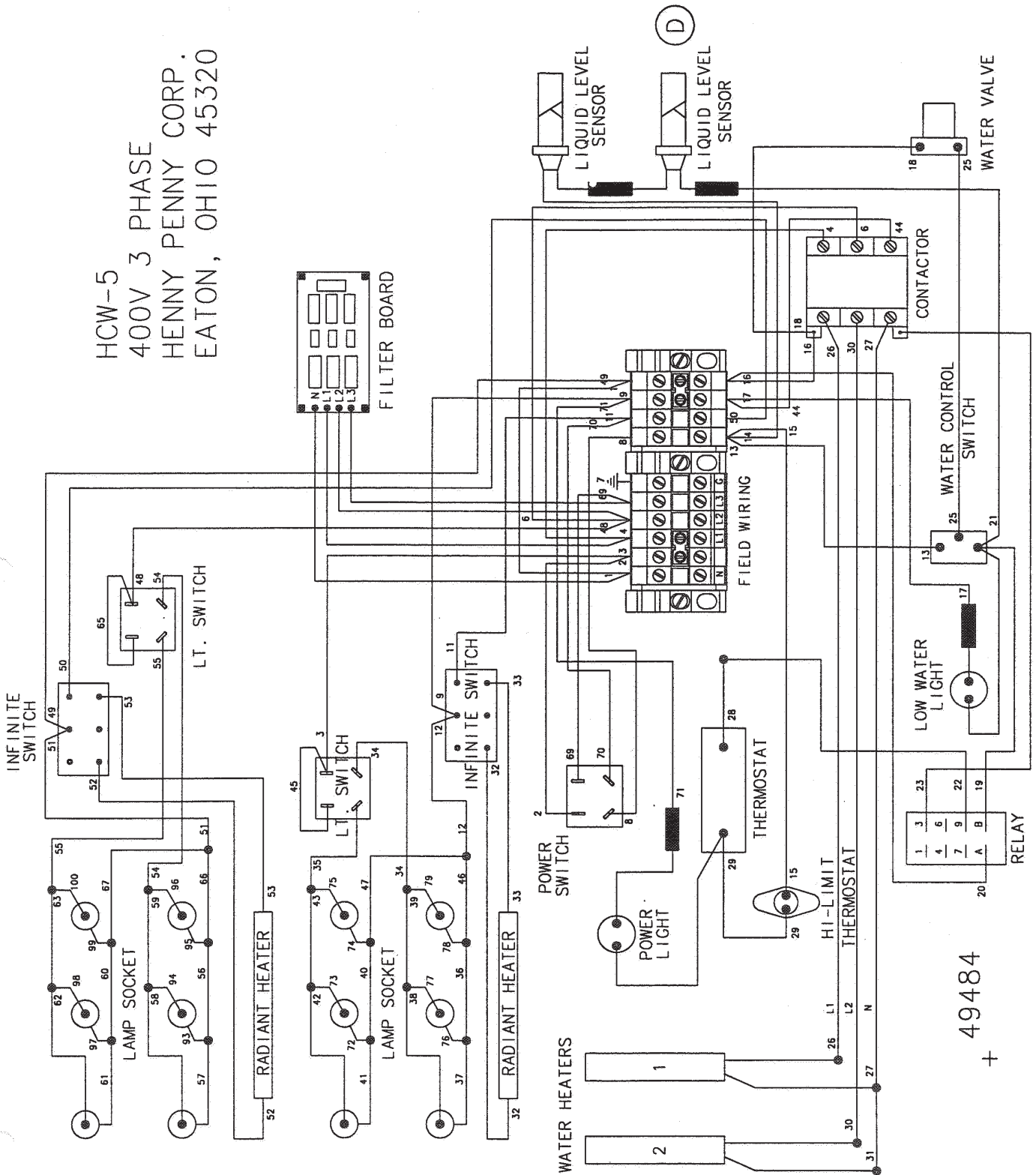
**2-23. WIRING DIAGRAMS (Continued)**



HCW-3  
400V 3 PHASE  
HENNY PENNY CORP.  
EATON, OHIO 45320

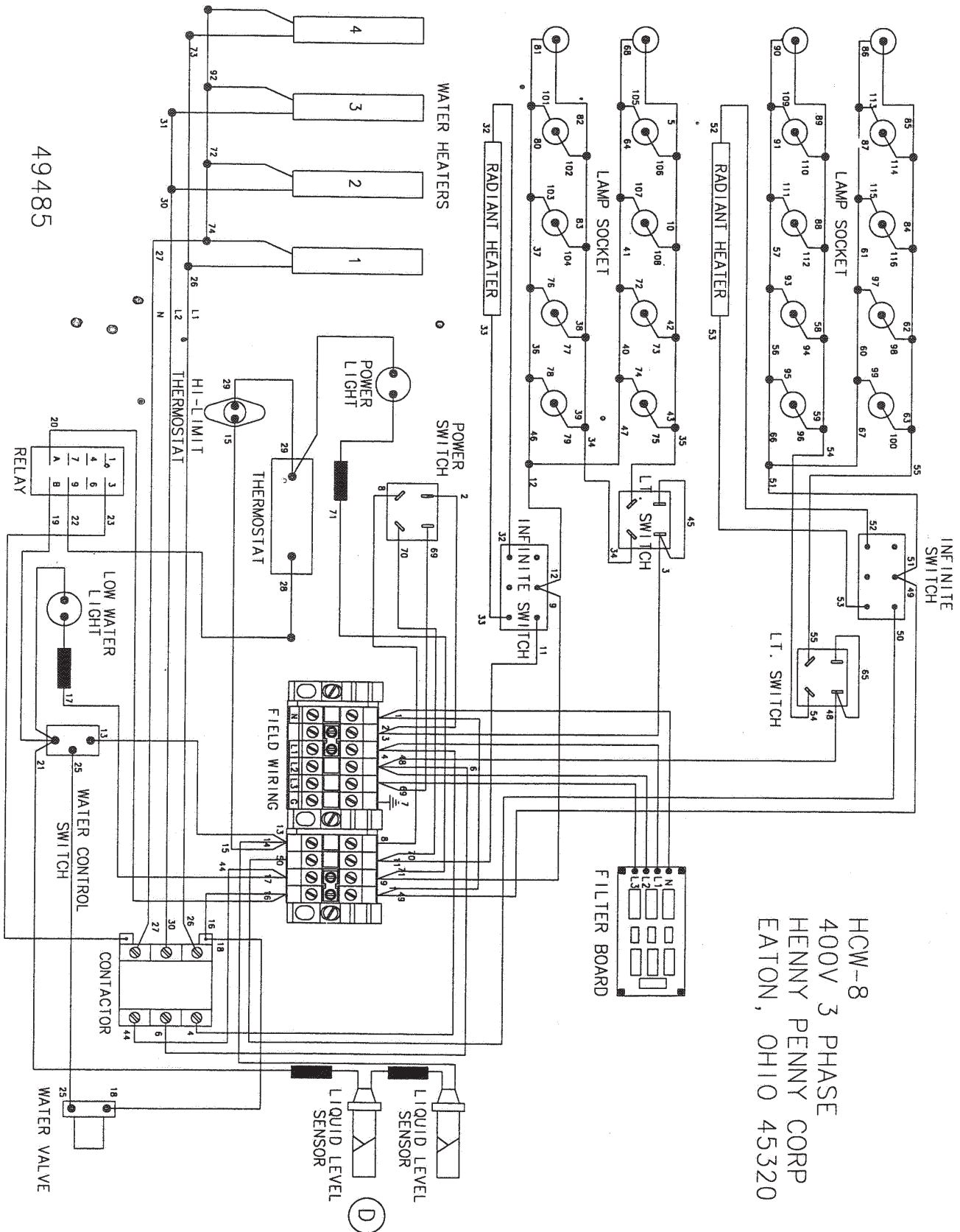
**2-23. WIRING DIAGRAMS (Continued)**

HCW-5  
400V 3 PHASE  
HENNY PENNY CORP.  
EATON, OHIO 45320



49484 +

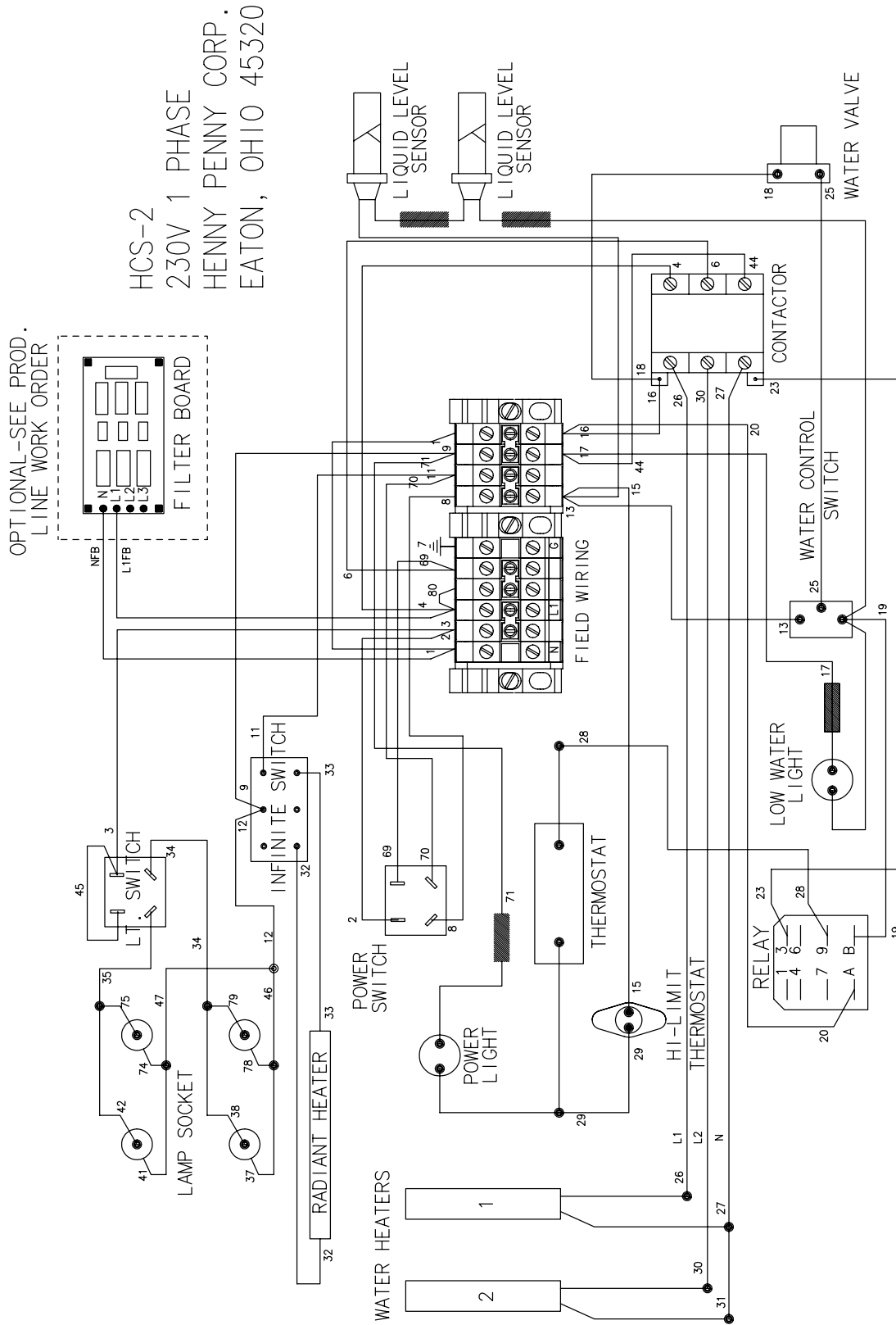
**2-23. WIRING DIAGRAMS (Continued)**



HCW-8  
400V 3 PHASE  
HENNY PENNY CORP  
EATON, OHIO 45320

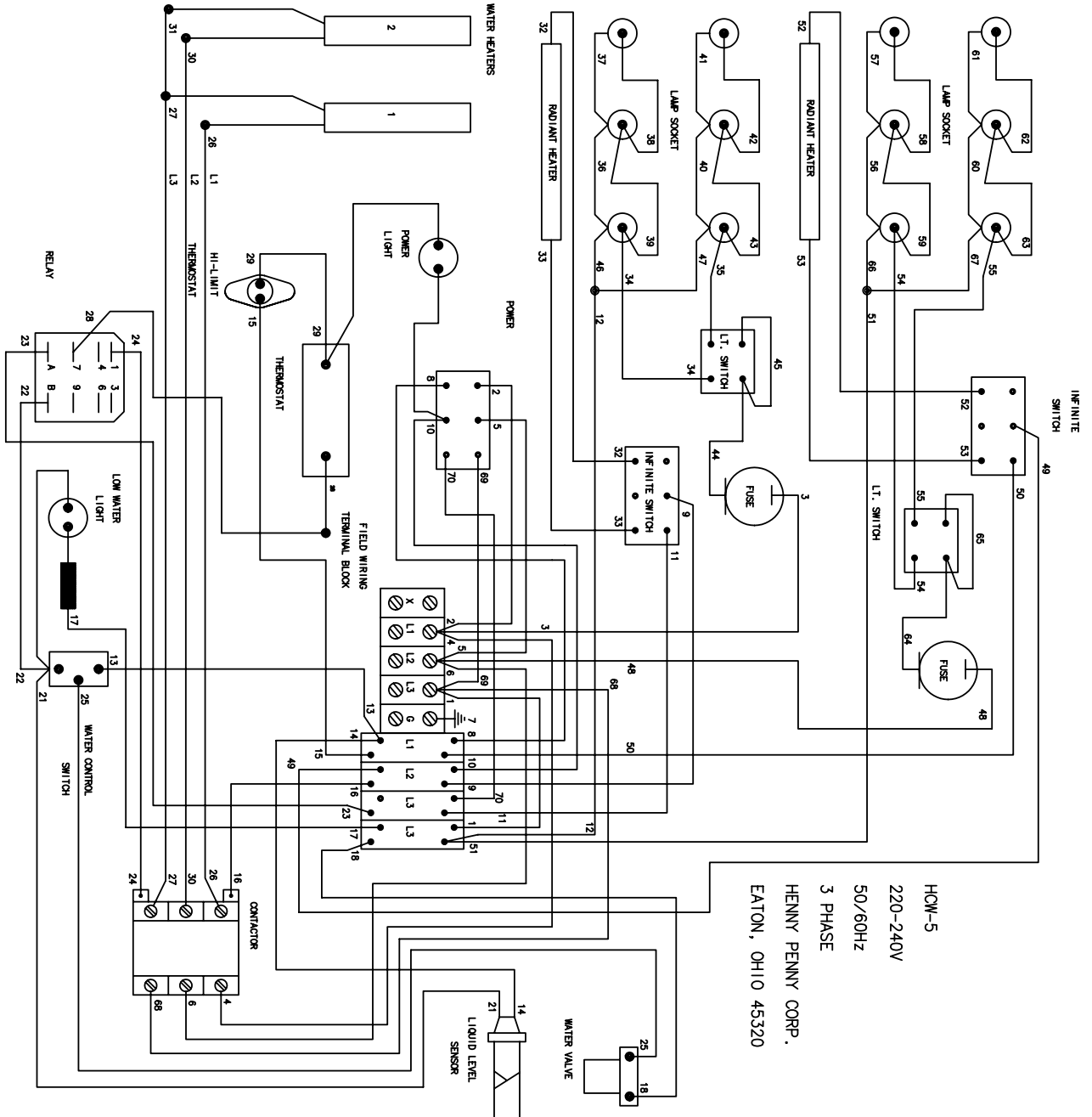


## 2-23. WIRING DIAGRAMS (Continued)



**2-23. WIRING DIAGRAMS (Continued)**

80562



## **LIMITED WARRANTY FOR HENNY PENNY EQUIPMENT**

Subject to the following conditions, Henny Penny Corporation makes the following limited warranties to the original purchaser only for Henny Penny appliances and replacement parts:

**NEW EQUIPMENT:** Any part of a new appliance, except baskets, lamps, and fuses, which proves to be defective in material or workmanship within two (2) years from date of original installation, will be repaired or replaced without charge F.O.B. factory, Eaton, Ohio, or F.O.B. authorized distributor. Baskets will be repaired or replaced for ninety (90) days from date of original installation. Lamps and fuses are not covered under this Limited Warranty. To validate this warranty, the registration card for the appliance must be mailed to Henny Penny within ten (10) days after installation.

**FILTER SYSTEM:** Failure of any parts within a fryer filter system caused by the use of the non-OEM filters or other unapproved filters is not covered under this Limited Warranty.

**REPLACEMENT PARTS:** Any appliance replacement part, except lamps and fuses, which proves to be defective in material or workmanship within ninety (90) days from date of original installation will be repaired or replaced without charge F.O.B. factory, Eaton, Ohio, or F.O.B. authorized distributor.

The warranty for new equipment covers the repair or replacement of the defective part and includes labor charges and maximum mileage charges of 200 miles round trip for a period of one (1) year from the date of original installation.

The warranty for replacement parts covers only the repair or replacement of the defective part and does not include any labor charges for the removal and installation of any parts, travel, or other expenses incidental to the repair or replacement of a part.

**EXTENDED FRYPOT WARRANTY:** Henny Penny will replace any frypot that fails due to manufacturing or workmanship issues for a period of up to seven (7) years from date of manufacture. This warranty shall not cover any frypot that fails due to any misuse or abuse, such as heating of the frypot without shortening.

**0 TO 3 YEARS:** During this time, any frypot that fails due to manufacturing or workmanship issues will be replaced at no charge for parts, labor, or freight. Henny Penny will either install a new frypot at no cost or provide a new or reconditioned replacement fryer at no cost.

**3 TO 7 YEARS:** During this time, any frypot that fails due to manufacturing or workmanship issues will be replaced at no charge for the frypot only. Any freight charges and labor costs to install the new frypot as well as the cost of any other parts replaced, such as insulation, thermal sensors, high limits, fittings, and hardware, will be the responsibility of the owner.

Any claim must be presented to either Henny Penny or the distributor from whom the appliance was purchased. No allowance will be granted for repairs made by anyone else without Henny Penny's written consent. If damage occurs during shipping, notify the sender at once so that a claim may be filed.

THE ABOVE LIMITED WARRANTY SETS FORTH THE SOLE REMEDY AGAINST HENNY PENNY FOR ANY BREACH OF WARRANTY OR OTHER TERM. BUYER AGREES THAT NO OTHER REMEDY (INCLUDING CLAIMS FOR ANY INCIDENTAL OR CONSEQUENTIAL DAMAGES) SHALL BE AVAILABLE.

The above limited warranty does not apply (a) to damage resulting from accident, alteration, misuse, or abuse; (b) if the equipment's serial number is removed or defaced; or (c) for lamps and fuses. THE ABOVE LIMITED WARRANTY IS EXPRESSLY IN LIEU OF ALL OTHER WARRANTIES, EXPRESS OR IMPLIED, INCLUDING MERCHANTABILITY AND FITNESS, AND ALL OTHER WARRANTIES ARE EXCLUDED. HENNY PENNY NEITHER ASSUMES NOR AUTHORIZES ANY PERSON TO ASSUME FOR IT ANY OTHER OBLIGATION OR LIABILITY.

Revised 01/01/07

## SECTION 3. PARTS INFORMATION

### **3-1. INTRODUCTION**

This section lists the replaceable parts of Henny Penny Model HCW-3, HCW-5, and HCW-8 display cabinets.

### **3-2. GENUINE PARTS**

Use only genuine Henny Penny parts in your cabinet. Using a part of lesser quality or substitute design may result in cabinet damage or personal injury.

### **3-3. HOW TO FIND PARTS**

To find items you want to order from the Parts List, proceed as follows:

1. Referring to the illustration in this section, find the part item number of the part needed.
2. Find the item number in the parts list, which shows the Henny Penny part number, a description of the part, any model or usage limitations, and the quantity of parts used.

### **3-4. HOW TO ORDER**

Once the parts you want to order have been found in the Parts List, write down the following information:

Example:

Item number	<u>75</u>
Part number	<u>25183</u>
Description	<u>Thermometer</u>

From the date plate list the following information:

Example:

Product number	<u>HCW5.0</u>
Serial number	<u>00155</u>
Phase	<u>3</u>
Voltage	<u>208</u>

### **3-4. HOW TO ORDER** **(Continued)**

The following table has been provided as a sample format for you to use in preparing your spare parts orders. By providing all the entries, your distributor will be able to ensure the correct parts will be sent to you. Also, by prepayment your order will be expedited.

FROM PARTS LIST			YOUR ORDER		
Figure Number	Part Number	Description	Quantity Ordered	Price Each	Total
75	25183	Thermometer	1		
<b>Product No.    <u>HCW5.0</u>                      Serial No.    <u>00155</u>                      Phase <u>3</u>                      Voltage <u>208</u></b>					

### **3-5. PRICES**

Your distributor has a period parts list and will be glad to inform you of the cost of your parts order.

### **3-6. DELIVERY**

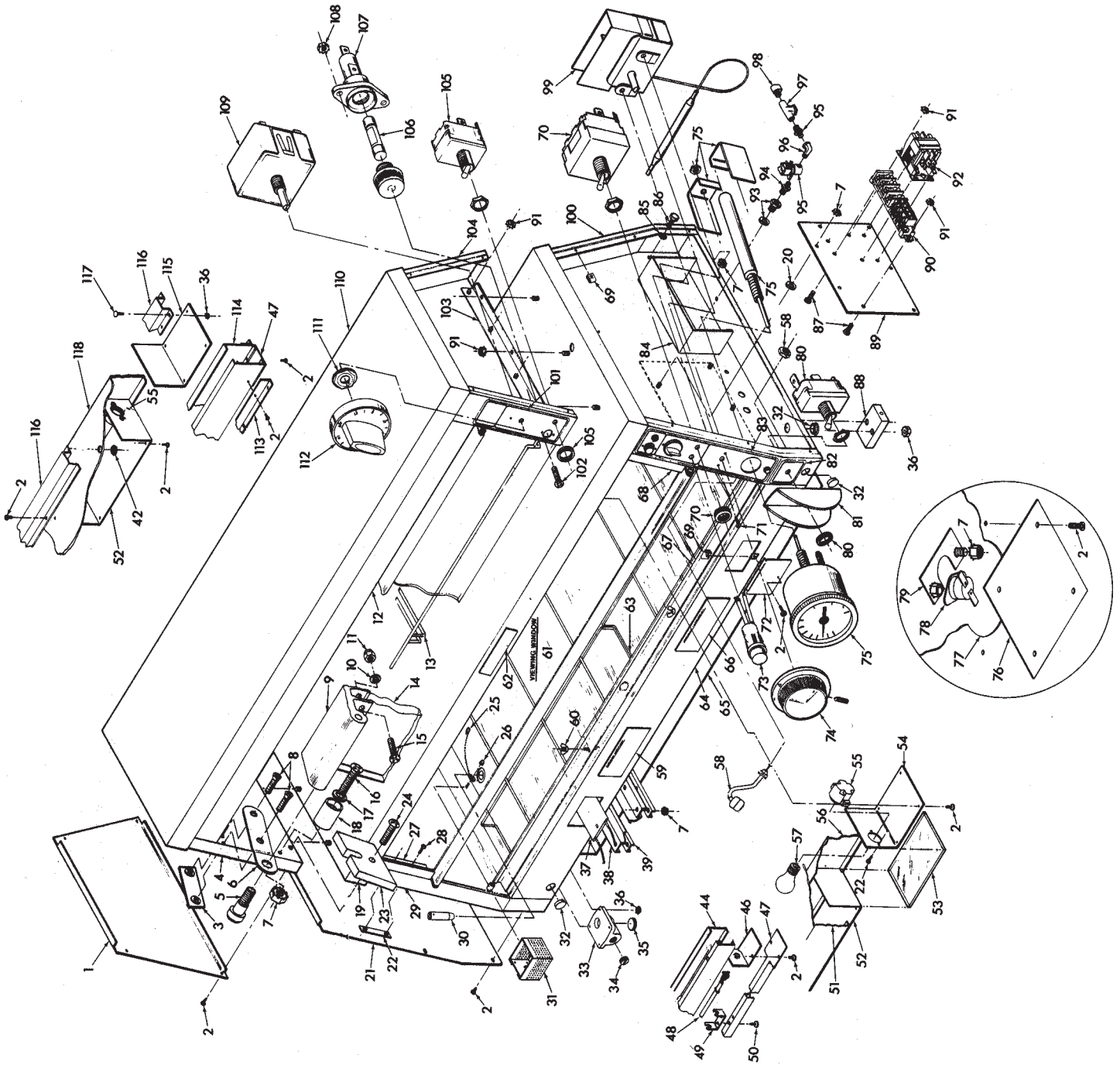
Commonly replaced items are stocked by your distributor and will be sent out when your order is received. Other parts will be ordered by your distributor from Henny Penny Corporation. Normally, these will be sent to your distributor within three working days.

### **3-7. WARRANTY**

All replacement parts (except lamps and fuses) are warranted for 90 days against manufacturing defects and workmanship. If damage occurs during shipping, notify the sender and the carrier at once so that a claim may be properly filled. Refer to warranty in the front of this section for other rights and limitations.

### **3-8. RECOMMENDED** **SPARE PARTS FOR** **DISTRIBUTORS**

Recommended replacement parts, stocked by your distributor, are indicated with √ in the parts lists. Please use care when ordering recommended parts, because all voltages and variations are marked. Distributors should order parts based upon common voltages and equipment sold in their territory.



**3-9. PARTS LIST**

Item No.	Part Number	Description	Qty.		
			HCS-2	HCW-5	HCW-8
1	22525	Panel - Top End	-	2	2
2	SC02-023	Screw #8-B x 3/8" PH Thd.	AR	AR	AR
3	22670	Bracket Assembly - Hinge	4	8	8
4	22889	End Channel - Top (1-1/2")-SN: IR022JB & Above	-	1	1
4	14403	Kit-End Channel- Top-SN: IR021JB & Below	-	1	1
5	38172	Bolt - Shoulder	4	8	8
6	22731	Pivot - Side	4	8	8
7	NS02-002	Nut - 1/4-20 Hex Kep	AR	AR	AR
8	SC01-032	Screw #8-32 x 5/8" PH 100 Fhd. S	AR	AR	AR
9	22650	Extrusion - HCW - Door	-	4	-
9	72184	Extrusion - HCS-2 - Door	2	-	-
10	LW02-006	Lockwasher - #8 Internal	8	16	34
11	NS03-024	Nut - (#8-32 Acorn)	8	16	34
12	22579	Top Decorator Panel Assembly	-	2	-
12	38941	Top Decorator Panel Assembly-	-	2	-
13	22558	Pan Support - Top	-	1	-
13	38935	Pan Support - Top - HCW-8	-	-	3
√ 14	22554	Door	-	4	-
√ 14	72183	Door - HCS-2	2	-	-
15	SC01-096	Screw #8-32 x 5/8" PH Phd.	AR	AR	AR
16	SC01-068	Screw #1/4-20 x 1" PH Fhd.	4	8	8
17	WA01-012	Washer	4	8	8
18	22455	Stop - Door	4	8	24
19	22599	Middle Shelf Sub-Assembly	-	1	-
19	69707	Middle Shelf Sub-Assembly - CE - HCW-2	-	-	-
19	38973	Middle Shelf Sub-Assembly - HCW-8	-	-	1
20	WA01-002	Washer - Plate - Electric Component	5	5	5
21	22519	Panel - End	2	2	2
22	NS03-050	Nutsert #8	4	8	8
23	22088	Support - Rack	-	2	2
24	SC01-074	Screw #10-32 x 3/4" PH Thd.	-	2	2
25	79107	Retaining Chain Assembly	1	1	1
26	NS03-016	Nut (#6-32 x 3/4" PH Thd.	1	1	1
27	41557	Viewing Panel Brkt. Assembly - LH	2	4	4
28	SC01-053	Screw #8-32 x 3/4" PH Thd.	AR	AR	AR
29	22887	End Channel-Bottom-1-1/2"-SN: IR022JB & Above	1	1	1
29	14401	Kit-End Channel- Bottom-SN: IR021JB & Below	-	1	1
√ 30	28071	Tube - Overflow	1	1	1
31	67852	Screen Assembly	1	1	1
32	PL01-006	Plug (1-1/8" Dia.)	3	3	3
33	22472	Block - Drain	1	1	1
34	FP01-009	Plug (3/4" Pipe) - Brass	1	1	1
35	FP01-021	Plug (1" Pipe)	1	1	1
36	NS02-006	Nut - #10-24 Hex Keps	AR	AR	AR
√ 37	22648	Strip Heater (230 volt, 1020 watt) - Specify	2	2	4
√ 37	22649	Strip Heater (208 volt, 1020 watt) - Specify	-	2	4
38	22430	Clamp - Heater	4	4	8
39	22429	Brace - Heater	4	4	8

√ recommended parts



**3-9. PARTS LIST (Continued)**

Item No.	Part Number	Description	Qty.		
			HCS-2	HCW-5	HCW-8
44	22549	Reflector - Heater Housing	-	1	-
44	39989	Reflector - Heater Housing - HCW-8	-	-	1
44	72203	Reflector - Heater Housing - HCS-2	1	-	-
46	22536	Cover - Terminal	2	4	4
47	22578	Deflector - Heater	-	1	-
47	39935	Deflector - Heater - HCW-8	-	-	1
47	72204	Deflector - Heater - HCS-2	1	-	-
√ 48	22644	Heater - Radiant - Lower (230 volt, 1000 watt) - Specify	-	1	-
√ 48	22645	Heater - Radiant - Lower (208 volt, 1000 watt) - Specify	-	1	-
√ 48	38955	Heater - Radiant - Lower (230 volt, 2000 watt) - Specify	-	-	1
√ 48	38786	Heater - Radiant - Lower (208 volt, 2000 watt) - Specify	-	-	1
√ 48	22646	Heater - Radiant - Upper (230 volt, 400 watt) - Specify	-	1	-
√ 48	22647	Heater - Radiant - Upper (208 volt, 400 watt) - Specify	-	1	-
√ 48	38954	Heater - Radiant - Upper (230 volt, 800 watt) - Specify	-	-	1
√ 48	38801	Heater - Radiant - Upper (208 volt, 800 watt) - Specify	-	-	1
√ 48	72187	Heater - Radiant - (230 volt, 600 watt)	1	-	-
49	22629	Bracket - Heater Support	1	2	6
50	SC01-023	Screw #8-AB x 1/2" PH Phd.	AR	AR	AR
51	22548	Ceiling Panel - Bottom	-	1	-
51	54273	Ceiling Panel - Bottom	-	-	1
51	72208	Ceiling Panel - Bottom	1	-	-
52	23517	Mounting Plate - Lamp Socket	4	8	16
53	22679	Glass with Silicone	4	12	20
54	23515	Mounting Plate - Lamp Socket	2	4	4
√ 55	28294	Socket - Light	-	12	20
√ 55	54041	Socket - Light - CE	4	12	20
56	22546	Side Plate - Light Box	-	2	-
56	38669	Side Plate - Light Box	-	-	2
56	72207	Side Plate - Light Box	1	-	-
√ 57	BL01-004	Light Bulb - 120 volt, 60 watt	-	12	20
√ 57	BL01-005	Light Bulb - 240 volt, 60 watt - CE	4	12	20
√ 58	14630	Float Switch - S.S.	1	1	1
59	22617	Plate - Cleaning Instructions	1	1	1
60	NS03-033	Nut #10-24 Wing	4	4	5
√ 61	22734	Viewing Panel	-	2	-
√ 61	41558	Viewing Panel - HCW-8	-	-	2
√ 61	41559	Viewing Panel - HCW-8	-	-	4
√ 61	72186	Viewing Panel - HCS-2	2	-	-
62	22795	Label - Use Max. 60 W	1	1	1
63	22678	Water Pan Grid	-	2	3
63	72185	Water Pan Grid	1	-	-
64	22551	Base - HCW-5/3 Water Pan - (before 5/87)	-	1	-
64	69708	Base - HCW-5/3 Water Pan-CE - SN: IR023JB and Above	-	1	-
64	14382	Kit - HCW-5/3 Water Pan - (Dom - after 5/87; CE - SN: IR022JB and below)	-	1	-
64	54267	Base - Water Pan - HCW-8, SN: IR023JB & Above	-	-	1
64	69700	Base - Water Pan - HCW-8-CE, SN: IR023JB & Above	-	-	1
64	14383	Kit - HCW-8 Water Pan - SN: AR009IH to IR022JB	-	1	-
64	71892	Base - Water Pan - HCS-2	1	-	-
65	22590	Cover - Wire	-	1	-
65	38699	Cover - Wire - HCW-8	-	-	1
65	72214	Cover - Wire - HCS-2	1	-	-
66	22618	Plate - Operating Instructions	1	1	1



**3-9. PARTS LIST (Continued)**

Item No.	Part Number	Description	Qty.		
			HCS-2	HCW-5	HCW-8
67	22560	Pan Support - Bottom	-	1	-
67	54263	Pan Support - Bottom - HCW-8	-	-	1
67	72188	Pan Support - Bottom - HCS-2	1	-	-
68	41556	Viewing Panel Bracket Assembly (R.H.)	1	2	2
69	NS03-017	Nut - #8 U-Type Clip - SN: IR022JB and below	-	AR	AR
✓ 70	22604	Switch Assembly - Power	1	1	1
71	SC01-023	Screw #6-32 x 1/4" PH Rhd,	2	2	2
72	22589	Plate - Access	2	2	4
✓ 73	16624	Light Indicator	-	2	2
✓ 73	54085	Light Indicator - CE - Green	2	2	2
74	16731	Knob - Thermostat	1	1	1
✓ 75	14250	Thermometer	1	1	1
76	22509	Plate - Access	1	1	1
77	22526	Pan - Bottom	-	1	-
77	38707	Pan - Bottom - HCW-8	-	-	1
77	72191	Pan - Bottom - HCS-2	1	-	-
✓ 78	22601	High Limit	1	1	1
79	22514	Bracket - High Limit Clamp	1	1	1
✓ 80	22673	Switch - 3 Position	1	1	1
81	15302	Guard - Switch	1	1	1
82	22815	Decal - Water Control Switch	1	1	1
83	22814	Decal - Bottom Control Panel	1	1	1
84	22667	Guard - Splash	1	1	1
85	LW02-004	Lockwasher (1/4" ext.)	AR	AR	AR
86	SC01-068	Screw #1/4-20 x 3/4"	8	8	8
87	SC01-002	Screw #10-32 x 1/2" PH Truss Hd.	2	2	2
88	22588	Mounting Block - Thermometer	1	1	1
89	66670	Plate - Electric Component	1	1	1
90	22607	Terminal Block Assembly	-	1	1
90	80573	Terminal Block Assembly - 220-240/3ph - HCW-5	-	1	-
90	53738	Terminal Block Assembly - Australian HCW-2	-	-	-
90	73525	Terminal Block Assembly - Australian HCS-2	1	-	-
91	NS02-001	Nut #10-32 Hex Keps	AR	AR	AR
✓ 92	19405	Contacto	1	1	1
93	FP01-013	Bulkhead Adaptor	1	1	1
94	FP01-012	Nipple - Reducing	2	2	2
✓ 95	14965	Kit - Valve - Solenoid (120 volt)	1	1	1
✓ 95	14966	Kit - Valve - Solenoid - 240V-60Hz & 220V-50Hz	1	1	1
✓ 95	32646	Valve - Solenoid - WRAS - UK	1	1	1
✓					
96	FP01-014	Elbow (1/8" Brass)	1	1	1
✓ 97	25208	Strainer - Water	1	1	1
98	FP05-005	Elbow (1/4 NPT to 1/4 NPT)	1	1	1
✓ 99	64103	Thermostat Control	1	1	1
100	22886	End Channel (3-1/2" Bottom) - SN: IR023JB and Above	1	1	1
100	14402	Kit - HCW End Channel - SN: IR022JB and below	-	1	1
101	22813	Decal - Top Control Panel	-	1	1
101	61524	Decal - Top Control Panel - Pollo Loco	-	1	1
102	SC01-113	Screw - #6-32 x 1/2" PH Phd.	-	4	4
103	22508	Angle - Channel Mount (Upper)	-	2	2
104	22892	End Channel Assy (3-1/2" Top) SN: IR023JB and Above	-	1	1
104	14413	Kit - HCW End Channel - SN: IR022JB and below	-	1	1

✓ recommended parts

**3-9. PARTS LIST (Continued)**

Item No.	Part Number	Description	Qty.		
			HCS-2	HCW-5	HCW-8
✓ 105	70046	Switch - Power	1	2	2
✓ 106	EF02-007	Fuse (15 amp) (SN: JA0705005 & below)	-	2	2
✓ 107	EF02-006	Fuse Holder (SN: JA0705005 & below)	-	2	2
✓ 107	EF02-125	Breaker - Push Button Reset (SN: JA0705006 & above)	-	2	2
108	NS02-005	Nut - #6-32 Hex Keys	-	4	4
✓ 109	23560	Infinite Regulator	1	2	2
110	22615	Top Cap Assembly	-	1	-
110	38972	Top Cap Assembly - HCW-8	-	-	1
110	72837	Top Cap Assembly - HCS-2	1	-	-
111	EF02-011	Nut - Infinite Regulator	1	2	2
112	22046	Knob - Infinite Switch	1	2	2
113	22543	Support - Glass	-	2	-
113	38721	Support - Glass - HCW-8	-	-	2
114	22549	Heater Housing - Upper	-	1	-
114	38940	Heater Housing - Upper - HCW-8	-	-	1
115	22539	Plate - Cover	4	4	4
116	22544	Hat Section	-	4	-
116	38727	Hat Section - HCW-8	-	-	4
116	72206	Hat Section - HCS-2	1	-	-
117	SC01-015	Screw - #10-24 x 1/2" Carriage	AR	AR	AR
118	22547	Ceiling Panel - Top	-	1	-
118	54275	Ceiling Panel - Top - HCW-8	-	-	1
✓ 119*	34528	Relay - 120 Volt	-	1	1
✓ 119*	30723	Relay - 240 Volt	1	1	1
✓ 119*	14772	Kit - Relay - 12 Volt - Replacement	-	1	1
✓ 119*	71933	Relay - 12 Volt	-	1	1
✓ 120*	51068	EMC Filter - CE & Australia	1	1	1
121*	48369	Switch Cover - CE	2	4	4
122*	14751	Kit - HCW WRAS Valve Retrofit - UK	1	1	1
122*	65134	Backflow-Prevent Assy - Complete - UK	1	1	1
✓ 123*	32645	Switch - Float - WRAS - UK	1	1	1
✓ 124*	32646	Solenoid Valve - Water - WRAS - UK	1	1	1
✓ 125*	25299	Spacer - Float Switch	2	2	2
126*	65105	Assy. - Reservoir - Weldment	1	1	1
122*	14468	Kit - HCW Water Reservoir Retrofit - CE	-	1	1
122*	65175	Backflow-Prevent Assy - Complete - CE	-	1	
✓ 123*	28856	Switch - Float - CE	-	1	
✓ 124*	72117	Solenoid Valve - Water - CE	-	1	1
15*	25299	Spacer - Float Switch	-	2	
126*	65105	Assy. - Reservoir - Weldment	-	1	1
127*	14628	Kit - Glass Edge Guard - HCW-3/5	-	1	-
128*	65469	Guard - Glass Edge - HCW-3/5	-	2	-
129*	14629	Kit - Glass Edge Guard - HCW-8/HCS-5	-	1	1
130*	65506	Guard - Glass Edge - HCW-8 - Long	-	-	4
131*	65507	Guard - Glass Edge - HCW-8 - Short	-	-	2
132*	14627	Kit - Insul. End Channel - HCW	-	1	1
133*	67816	Insul - Side 4.5 x 24 x 1 - HCW End	-	1	1
134*	67827	Insul - Side 2.5 x 24 x 1 - HCW End	-	1	1
135*	70410	Conduit - 1/2 x 72 in. Flex. - Power Cord - Canada	-	1	-
136*	14628	Kit-Glass Edge Guard HCW-3/5	-	1	-

✓ recommended parts/\* not shown

### HCW-8 Only Parts List

Part Number	Description	Qty.
54193*	Brace Weldment Upper w/Rack Support	2
54197*	Brace Weldment - Upper	2
38774*	Door Assembly - 30" - Middle - Top	2
38742*	Door - 30" - Middle - Top	2
38773*	Extrusion - 30" - Middle - Top	2
38926*	Door Pin	8
38743*	Door Assembly - 30" - End - Top	4
38737*	Door Extrusion - 30" - End - Top	4
38742*	Door - 30" - End - Top	4
38745*	Door Assembly - 36" - End - Bottom	4
38740*	Door - 36" - End - Bottom	4
38739*	Extrusion - 36" - End - Bottom	4
54195*	Brace Weldment - Lower	4
38744*	Door Assembly - 18 3/8" - Middle - Bottom	2
38741*	Door - 18 3/8" - Middle - Bottom	2
38738*	Extrusion - 18 3/8" - Middle - Bottom	2
38705*	Insulation - Top	1
38702*	Insulation - Bottom	1
NS02-006*	Nut #10-24 Keps	AR
NS03-023*	1/4-20 Acorn Nut - Door Stop	16
WA01-013*	Washer - 1/4" - Door Stop	16
14629*	Kit -Glass Edge Guard HCW-8/HCS-5	1